



# Panasonic®

## Operating Instructions Portable DVD/CD Player

Model No. **DVD-LX97**

### *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 read the instructions completely.

Please keep this manual for future reference.



### **MULTI-FORMAT PLAYBACK**

See pages 8 for details.

### **Region number**

The player plays DVD-Video marked with labels containing the region number "2" or "ALL".

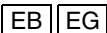
Example:



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

Unless otherwise indicated, illustrations in these operating instructions are of the models for the United Kingdom.

**Note** "EB" on the packaging indicates the United Kingdom.



RQT8241-B

# Caution for AC Mains Lead

## (For United Kingdom) ("EB" area code model only)

For your safety, please read the following text carefully. This appliance is supplied with a moulded three pin mains plug for your safety and convenience. A 5-ampere fuse is fitted in this plug. Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362. Check for the ASTA mark  or the BSI mark  on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced. If you lose the fuse cover the plug must not be used until a replacement cover is obtained. A replacement fuse cover can be purchased from your local dealer.

### CAUTION!

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

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

If in any doubt please consult a qualified electrician.

### IMPORTANT

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

Blue: Neutral, Brown: Live.

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

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

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

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

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

### Before use

Remove the connector cover.

### How to replace the fuse

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

Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.

Figure A

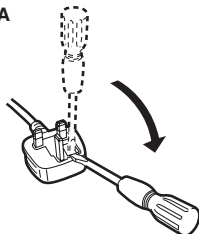
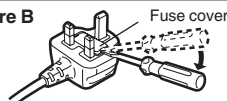


Figure B



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

Figure A

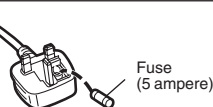
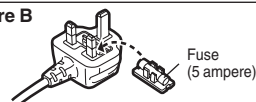


Figure B



### 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.**

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

### AC adaptor

This AC adaptor operates on AC between 100 V and 240 V.

But

- Obtain a suitable plug adaptor if the plug does not fit the AC mains socket.

**THIS UNIT IS INTENDED FOR USE IN MODERATE CLIMATES.**

# Accessories



Use numbers indicated in parentheses when asking for replacement parts.

(Product numbers correct as of February 2006. These may be subject to change.)

- ☐ **1 Remote control** (N2QAHC000021)
- ☐ **1 Button-type battery** for remote control (for replacement, see page 7)
  - Keep out of the small children.
  - Accidental swallowing of batteries can result in stomach and intestinal damage.
- ☐ **1 Audio/video cable** (K2KA6CB00003)
- ☐ **1 AC adaptor** (RFEA213W)
- ☐ **1 AC mains lead**
  - For the United Kingdom** (K2CT3CA00004)
  - For Continental Europe** (K2CQ2CA00006)
  - For use with this unit only. Do not use it with other equipment.
  - Also, do not use cords for other equipment with this unit.
- ☐ **1 Car DC Adaptor** (RFEC202M-M)
- ☐ **1 Headrest Mounting bracket** (RXQ1405A)
- ☐ **1 Monitor holder** (RGQ0442-K)
- ☐ **1 Rechargeable battery pack** (CGR-H712)
  - For replacement: Available from Panasonic dealers (CGR-H712, CGR-H713)

**For the United Kingdom and Republic of Ireland**

## Sales and Support Information

### Customer Care Centre

- For customers within the UK: 08705 357357
- For customers within the Republic of Ireland: 01 289 8333
- Visit our website for product information  
E-mail: [customer.care@panasonic.co.uk](mailto:customer.care@panasonic.co.uk)

### Direct Sales at Panasonic UK

- Order accessory and consumable items for your product with ease and confidence by phoning our Customer Care Centre Monday - Thursday 9:00am - 5:30pm, Friday 9:30am - 5:30pm (Excluding public holidays).
- Or go on line through our Internet Accessory ordering application at [www.panasonic.co.uk](http://www.panasonic.co.uk).
- Most major credit and debit cards accepted.
- All enquiries transactions and distribution facilities are provided directly by Panasonic UK Ltd.
- It couldn't be simpler!
- Also available through our Internet is direct shopping for a wide range of finished products, take a browse on our website for further details.

Interested in purchasing an extended guarantee?  
Please call 0870 240 6284 or visit our website  
[www.panasonic.co.uk/guarantee](http://www.panasonic.co.uk/guarantee).

**Do not rest the unit on your lap for a long time while using it. The unit can become hot and cause burns.**

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# Precautions

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) Protect the AC mains lead from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 10) Only use attachments/accessories specified by the manufacturer.
- 11) 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.
- 12) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 13) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as AC mains lead 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.



## Precautions for Listening with the Headphones or Earphones

- Do not play your headphones or earphones at a high volume. Hearing experts advise against continuous extended play.
- If you experience a ringing in your ears, reduce volume or discontinue use.
- Do not use while operating a motorized vehicle. It may create a traffic hazard and is illegal in many areas.
- You should use extreme caution or temporarily discontinue use in potentially hazardous situations.
- Even if your headphones or earphones are the open-air type designed to let you hear outside sounds, don't turn up the volume so high that you can't hear what's around you.

## Batteries

### 1. Battery pack (Lithium ion battery pack)

- Use this unit to recharge the battery pack.
- Do not use the battery pack with equipment other than the specified player.
- Do not use the player outside if it is snowing or raining. (The battery pack is not waterproof.)
- Do not get dirt, sand, liquids, or other foreign matter on the terminals.
- Do not touch the plug terminals (+ and -) with metal objects.
- Do not disassemble, remodel, heat or throw into fire.
- Do not store the battery pack in temperature over 60 °C.

### 2. Button-type battery (Lithium battery)

- Insert with poles aligned.
- Do not touch the terminals (+ and -) with metal objects.
- Do not disassemble, remodel, heat or throw into fire.
- Keep out of reach of children

If any electrolyte should come into contact with your hands or clothes, wash it off thoroughly with water.

If any electrolyte should come into contact with your eyes, never rub the eyes.

Rinse eyes thoroughly with water, and then consult a doctor.

### 3. Disposing of the batteries

Check and follow your local regulations before disposal.

## 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!

**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.**

## CAUTION!

**DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED.**

**REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE RECOMMENDED BY THE MANUFACTURER. DISCARD USED BATTERIES ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.**

## WARNING:

**The driver must not operate this unit while the vehicle is moving.**

**Do not operate this unit where it can be viewed by the driver.**

**Driver operation or viewing of this unit while the vehicle is moving will cause distraction which may result in serious accident and personal injury or property damage.**

## To prevent damage

Avoid the following:

- Spraying flammable insecticides near the unit.
  - Pressing the LCD.
  - Touching the lens and other parts of the laser pickup.
- Do not use the unit in the following places:
- Sandy places such as beaches.
  - On top of cushions, sofas, or hot equipment such as amplifiers.

Do not leave in an unventilated automobile or exposed to direct sunlight and high temperatures.

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.

Marking sign is located on bottom of the unit.

Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

"DTS" and "DTS 2.0 + Digital Out" are trademarks of Digital Theater Systems, Inc.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

This product is licensed under the MPEG-4 Visual patent portfolio license for the personal and non-commercial use of a consumer for (i) encoding video in compliance with the MPEG-4 Visual Standard ("MPEG-4 Video") and/or (ii) decoding MPEG-4 Video that was encoded by a consumer engaged in a personal and non-commercial activity and/or was obtained from a video provider licensed by MPEG LA to provide MPEG-4 Video. No license is granted or shall be implied for any other use. Additional information including that relating to promotional, internal and commercial uses and licensing may be obtained from MPEG LA, LLC. See <http://www.mpegla.com>.

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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.

Official DivX® Certified product.

Plays all versions of DivX® video (including DivX®6) with standard playback of DivX® media files.

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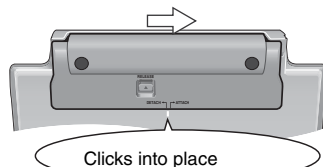
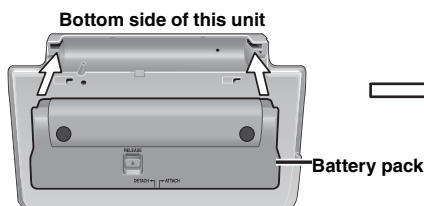
# Preparations

FOR THE UNITED KINGDOM ONLY

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

## 1 Attaching the battery (When the unit is off)

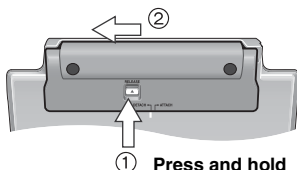
An optional battery pack (CGR-H713) is also available. The procedure for attaching and detaching is the same.



Check to make sure it is securely fastened.

### Detaching

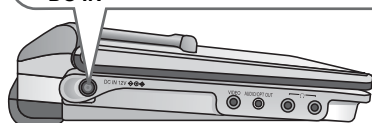
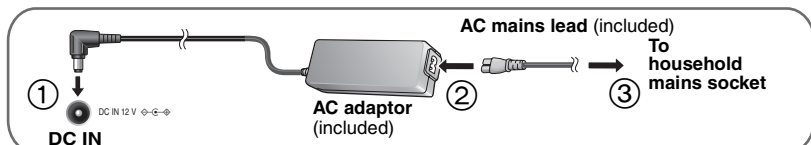
- Turn the unit off before detaching the battery pack.



### When not using for long periods of time

- Remove the battery pack (→ left).  
(Even when the unit is turned off, there is a small amount of voltage running through the unit, and this may result in a malfunction.)
- Recharge the battery for re-use.

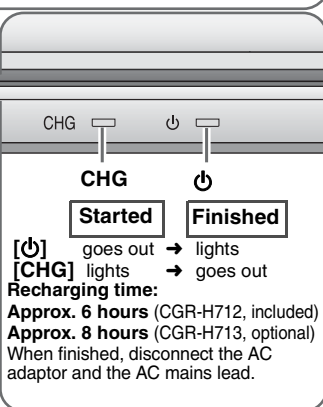
## 2 Recharging the battery (When the unit is off)



- You can also use this unit without charging while connecting the AC adaptor and the AC mains lead.
- You can also use this unit without charging while connecting Car DC Adaptor (→ page 30, Connecting the included Car DC Adaptor).

### To conserve power

This unit consumes 0.3 W of power even when turned off. When the unit is not going to be used for a long time, disconnect the AC mains lead from the household mains socket. The unit is in the standby condition (the [⏻] indicator lights) when the AC mains lead is connected. The primary circuit is always "live" as long as the AC adaptor is connected to an electrical outlet.



[⏻] goes out → lights  
[CHG] lights → goes out

### Recharging time:

Approx. 6 hours (CGR-H712, included)

Approx. 8 hours (CGR-H713, optional)

When finished, disconnect the AC adaptor and the AC mains lead.

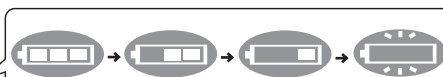
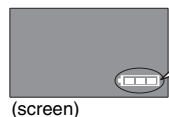
## Approximate play times (Hours)

| Battery pack        | Play (at room temperature using headphones) |       |                    |         |
|---------------------|---------------------------------------------|-------|--------------------|---------|
|                     | LCD brightness level                        |       |                    | LCD Off |
|                     | -5                                          | 0     | 5 (factory preset) |         |
| CGR-H712 (included) | 6 (7.5)                                     | 4 (5) | 3 (4)              | 10 (13) |
| CGR-H713 (optional) | 10 (12)                                     | 7 (8) | 5 (6)              | 15 (18) |

- Times for when playing SD cards are in parenthesis.
- The times indicated above may differ depending on use.
- To change the LCD brightness (→ page 14, Adjusting the picture quality on the LCD).

## Checking the remaining battery charge

When the unit is on (→ page 10) and powered by the battery pack  
Press [DISPLAY] to check on the LCD (Displays for a few seconds).

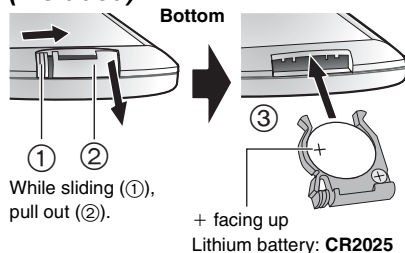


### Recharge

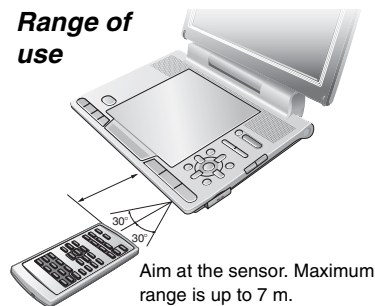
Appears automatically when there is only a few minutes of charge remaining.

## ③ The remote control

Insert the button-type battery (included)



Range of use



## ④ Adjusting the LCD angle



When moving the unit : Close the LCD. Don't hold by the LCD.

# Discs that can be played

## Commercial discs

| Disc Logo                                                                                                             | Indicated in these instructions by | Remarks                                                           |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------------|-------------------------------------------------------------------|
| <b>DVD-Video</b><br>                 | <b>DVD-V</b>                       | High quality movie and music discs                                |
| <b>DVD-Audio</b> <sup>※1,2</sup><br> | <b>DVD-A</b>                       | High quality music discs                                          |
| <b>Video CD</b><br>                  | <b>VCD</b>                         | Music discs with video<br>Including SVCD (Conforming to IEC62107) |
| <b>CD</b><br>                        | <b>CD</b>                          | Music discs                                                       |

## Discs that cannot be played

Version 1.0 of DVD-RW, DVD-ROM, CD-ROM, CDV, CD-G, SACD and Photo CD, DVD-RAM that cannot be removed from their cartridges, 2.6-GB and 5.2-GB DVD-RAM, and "Chaoji VCD" available on the market including CVD, DVCD and SVCD that do not conform to IEC62107.

※1 Some multi-channel DVD-Audio will prevent down-mixing (→ page 38, Glossary) of all or part of their contents if this is the manufacturer's intention.

※2 Some DVD-Audio discs contain DVD-Video content. To play DVD-Video content, select "Play as DVD-Video" (→ page 25, Other Menu).

## Recorded disc (✓: Available X: Not available)

| Disc<br>Logo                                                                                  | Recorded on a DVD<br>recorder, etc. |                     | Recorded on a personal computer, etc. |     |      |       |      | Necessity of<br>finalize <sup>※4</sup> |
|-----------------------------------------------------------------------------------------------|-------------------------------------|---------------------|---------------------------------------|-----|------|-------|------|----------------------------------------|
|                                                                                               | DVD-VR <sup>※2</sup>                | DVD-V <sup>※3</sup> | WMA                                   | MP3 | JPEG | MPEG4 | DivX |                                        |
| DVD-RAM<br>  | ✓                                   | —                   | ×                                     | ✓   | ✓    | ✓     | ✓    | Not Necessary                          |
| DVD-R/RW<br>  | ✓                                   | ✓                   | ×                                     | ✓   | ✓    | ✓     | ✓    | Necessary                              |
| DVD-R DL<br> | ✓                                   | ✓                   | ×                                     | ×   | ×    | ×     | ×    | Necessary                              |
| +R/+RW<br>—                                                                                   | ×                                   | (✓)                 | ×                                     | ×   | ×    | ×     | ×    | Necessary                              |
| +R DL<br>—                                                                                    | ×                                   | (✓)                 | ×                                     | ×   | ×    | ×     | ×    | Necessary                              |
| CD-R/RW <sup>※1</sup><br>—                                                                    | —                                   | —                   | ✓                                     | ✓   | ✓    | ✓     | ✓    | Necessary <sup>※5</sup>                |

• It may not be possible to play the above discs in all cases due to the type of discs, the condition of the recording, the recording method and how the files were created (→ page 32, Tips for making data discs).

※1 This unit can play CD-R/RW recorded with CD-DA or Video CD format.

(WMA MP3 JPEG This unit also plays HighMAT discs.)

※2 Discs recorded on DVD recorders, DVD video cameras, etc. using Version 1.1 of the Video Recording Format (a unified video recording standard).

For DVD-R DL: Discs recorded on DVD recorders or DVD video cameras using Version 1.2 of the Video Recording Format (a unified video recording standard).

※3 Discs recorded on DVD recorders or DVD video cameras using DVD-Video Format.

For +R/+RW and +R DL: Discs recorded using a format different from DVD-Video Format, therefore some functions cannot be used.

※4 A process that allows play on compatible equipment. To play a disc that is displayed as "Necessary" on this unit, the disc must first be finalized on the device it was recorded on.

※5 Closing the session will also work.

## Cards that can be played

- **A miniSD™ card adaptor included with the miniSD™ card is necessary.**
- It may not be possible to play the above cards in all cases due to the type of cards, the condition of the recording, the recording method and how the files were created.
- **Keep the SD Memory Card out of reach of children. If swallowed, seek medical advice immediately.**

# Playing discs

## 1 Open the lid.

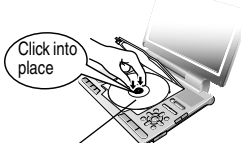
OPEN



Headphone terminals [Ω]  
 φ 3.5 mm stereo mini jack

## 2 Insert a disc and close the lid.

Click into place



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

- **DVD-RAM:** Remove discs from their cartridges before use.
- Some discs start to play automatically when the unit is on.

## 3 Press and hold.

ON



The unit turns on and play begins.

- When "SD" or "AUX" is displayed, press [AV SELECT] several times until "DISC" is displayed. (Playing SD cards → page 12/ Watching video from other equipment → page 31)

## 4 Adjust the volume.

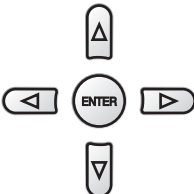


When using headphones, turn down the volume before connection.

- To play **JPEG**, **MP3**, **MPEG4** or **DivX** on DVD-RAM that contain both **DVD-VR** and another format (e.g. **JPEG**), select "Play as Data Disc" (→ page 25, Other Menu).
- While stopped, the unit automatically turns off once 15 minutes (after approximately 5 minutes when using the battery pack) have elapsed.
- Discs continue to rotate while menus are displayed. Press [■, -OFF] when you finish to preserve the unit's motor.
- Total title number may not be displayed properly on +R/+RW.
- If you are experiencing problems, refer to troubleshooting guide (→ page 34).

## Operations

|  |                   |                                                                                                                                                                                                                                                                                                                                       |
|--|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Turn unit on/play | <p>When the unit is off:<br/>Press and hold and the power comes on and play begins.</p> <p>When the unit is on:<br/>Press and play begins.</p>                                                                                                                                                                                        |
|  | Pause             | Press [▶, ON] to restart play.                                                                                                                                                                                                                                                                                                        |
|  | Stop              | <p>The position is memorized when "Press PLAY to resume play" appears on the screen.</p> <ul style="list-style-type: none"> <li>• Press [▶, ON] to resume. (<b>Resume play</b>)</li> </ul> <p>Opening the disc lid, or pressing [■, -OFF] while "Press PLAY to resume play" appears on the screen cancels the memorized position.</p> |
|  | Turn unit off     | Press and hold until "OFF" is displayed.                                                                                                                                                                                                                                                                                              |

|                                                                                               |                          |                                                                                                                                                                                                          |
|-----------------------------------------------------------------------------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               | <b>Skip</b>              | Press [ <b>⏮</b> , <b>⏭</b> ].<br><b>DVD-VR</b> Can also skip to the markers.                                                                                                                            |
|                                                                                               | <b>Search</b>            | Press and hold [ <b>⏮</b> , <b>⏭</b> ] (up to 5 steps).                                                                                                                                                  |
|                                                                                               | <b>Slow play</b>         | Press and hold [ <b>⏮</b> , <b>⏭</b> ] (up to 5 steps) while paused.<br>Press [ <b>▶</b> , <b>ON</b> ] to return to normal play.<br><b>VCD</b> [ <b>⏭</b> ] only<br>• <b>MPEG4 DivX</b> : Does not work. |
| TOP MENU<br> | <b>Top menu</b>          | <b>DVD-A</b> <b>DVD-V</b>                                                                                                                                                                                |
|                                                                                               | <b>Playing programs</b>  | <b>DVD-VR</b> (→ page 22)                                                                                                                                                                                |
| MENU<br>     | <b>Playback Menu</b>     | <b>WMA</b> <b>MP3</b> <b>JPEG</b> <b>MPEG4</b> <b>DivX</b><br>Playing data discs (→ page 20)                                                                                                             |
|                                                                                               | <b>Menu</b>              | <b>DVD-V</b>                                                                                                                                                                                             |
|                                                                                               | <b>Playing playlists</b> | <b>DVD-VR</b> (→ page 22)                                                                                                                                                                                |
| RETURN<br>   | <b>Navigation Menu</b>   | <b>WMA</b> <b>MP3</b> <b>JPEG</b> <b>MPEG4</b> <b>DivX</b><br>Playing data discs (→ page 20)                                                                                                             |
|                                                                                               | <b>Return</b>            | Returns to the previous screen.<br><b>VCD</b> (with playback control) Returns to the menu.                                                                                                               |
|               | <b>Menu operation</b>    | Press [ <b>▲</b> <b>▼</b> <b>◀</b> <b>▶</b> ] to select an item and press [ <b>ENTER</b> ] to confirm.                                                                                                   |
|                                                                                               | <b>Frame-by-frame</b>    | <b>DVD-VR</b> <b>DVD-V</b> <b>VCD</b><br>While paused, press [ <b>◀</b> <b>▶</b> ].<br><b>VCD</b> [ <b>▶</b> ] only                                                                                      |
|                                                                                               | <b>Group skip</b>        | <b>WMA</b> <b>MP3</b> <b>JPEG</b> <b>MPEG4</b> <b>DivX</b><br>Press [ <b>▲</b> <b>▼</b> ].<br>• Does not work while paused.                                                                              |

## Remote control operations

|                                                                                           |                         |                                                                                                                                                                                                                                                                                              |
|-------------------------------------------------------------------------------------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          | <b>Turn unit on/off</b> | • You cannot turn on the unit with the remote control if the unit is powered by the battery pack.                                                                                                                                                                                            |
| PLAY<br> | <b>Play</b>             | Press and play begins.                                                                                                                                                                                                                                                                       |
|        | <b>Skip</b>             | Press [ <b>⏮</b> , <b>⏭</b> ].<br><b>DVD-VR</b> Can also skip to the markers.                                                                                                                                                                                                                |
|        | <b>Search</b>           | Press [ <b>◀◀</b> , <b>▶▶</b> ] (up to 5 steps).                                                                                                                                                                                                                                             |
|                                                                                           | <b>Slow play</b>        | Press [ <b>◀◀</b> , <b>▶▶</b> ] (up to 5 steps) while paused.<br>Press [ <b>▶</b> ] (PLAY) to return to normal play.<br><b>VCD</b> [ <b>▶▶</b> ] only<br>• <b>MPEG4 DivX</b> : Does not work.                                                                                                |
|         | <b>Enter number</b>     | <b>DVD-VR</b> <b>DVD-A</b> <b>DVD-V</b> <b>VCD</b> <b>CD</b><br>e.g. To select 12:<br>[ <b>≥10</b> ] → [ <b>1</b> ] → [ <b>2</b> ]<br><br><b>WMA</b> <b>MP3</b> <b>JPEG</b> <b>MPEG4</b> <b>DivX</b><br>e.g. To select 123:<br>[ <b>1</b> ] → [ <b>2</b> ] → [ <b>3</b> ] → [ <b>ENTER</b> ] |

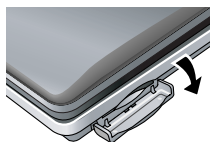
# Playing SD cards

Do not remove the card or turn off the unit while the card is being read from ("Card Reading..." is on the display) or the unit is using the card. This can corrupt your data.

- You can use SD Memory Cards with capacities from 8 MB to 2 GB (→ page 9).
- When you insert a SD card while the unit is on, Playback starts automatically.

## 1 Insert the card.

### ① Open the cover.



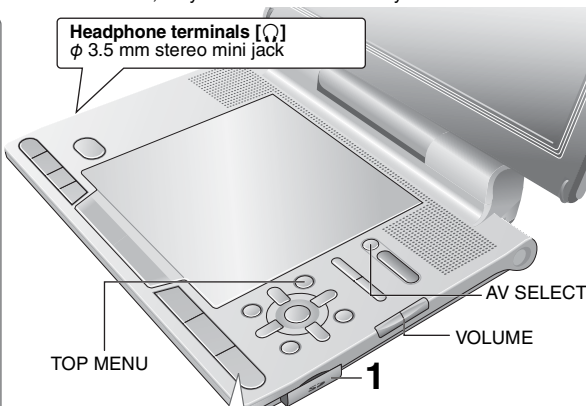
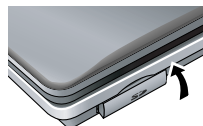
### ② Insert the card.



- If you are using a miniSD™ card, insert it into the miniSD™ card adaptor that comes with the card. Insert and remove this adaptor from the unit.



### ③ Close the cover.



## 2 Press and hold until the power comes on.



Play begins automatically

When "AUX" or "DISC" is displayed, press [AV SELECT] several times until "SD" is displayed.

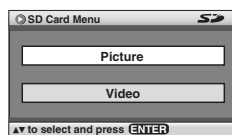
- **[SD VIDEO]** Adjust the volume.
- When playing a SD card that contain both "Picture" and "Video" content, "Picture" content will be played first.

## ■ To change content

TOP MENU



Press to display "SD Card Menu".



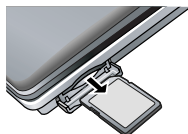
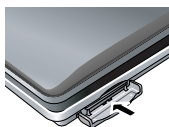
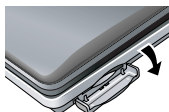
Press [▲ ▼] to select "Picture" or "Video" and press [ENTER].

Play begins.

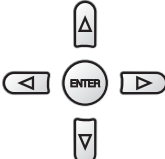
- While stopped, the unit automatically turns off once 15 minutes (after approximately 5 minutes when using the battery pack) have elapsed.
- If you are experiencing problems, refer to troubleshooting guide (→ page 34).

## ■ Remove the card

- ① Open the cover.    ② Press on the center of the card.    ③ Pull it straight out.



# Main unit operations

|                                                                                   |                 |                                                                                                                                                                                                                                                                                    |
|-----------------------------------------------------------------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   | Turn unit on    | Press and hold and the power comes on and play begins automatically.                                                                                                                                                                                                               |
|  | Pause           | Press [▶, ON] to restart play.                                                                                                                                                                                                                                                     |
|  | Stop            | The position is memorized when the message appears on the screen.<br>• Press [▶, ON] to resume. ( <b>Resume play</b> )<br>Pressing [■, -OFF], removing the card or pressing [AV SELECT] while the message appears on the screen cancels the memorized position where play stopped. |
|                                                                                   | Turn unit off   | Press and hold until "OFF" is displayed.                                                                                                                                                                                                                                           |
|  | Skip            | Press [◀◀, ▶▶].                                                                                                                                                                                                                                                                    |
|                                                                                   | Search          | <b>SD VIDEO</b> Press and hold [◀◀, ▶▶] (up to 5 steps).<br>Press [▶, ON] to return to normal play.                                                                                                                                                                                |
|  | SD Card Menu    | → page 23, Playing items in order                                                                                                                                                                                                                                                  |
|  | Navigation Menu | → page 23, Playing from the selected item                                                                                                                                                                                                                                          |
|  | Return          | Returns to the previous screen.                                                                                                                                                                                                                                                    |
|   | Menu operation  | Press [▲ ▼◀ ▶] to select an item and press [ENTER] to confirm.                                                                                                                                                                                                                     |
|                                                                                   | Group skip      | <b>SD PICTURE</b><br>Press [▲ ▼].                                                                                                                                                                                                                                                  |

# Remote control operations

|                                                                                     |                  |                                                                                                   |
|-------------------------------------------------------------------------------------|------------------|---------------------------------------------------------------------------------------------------|
|  | Turn unit on/off | • You cannot turn on the unit with the remote control if the unit is powered by the battery pack. |
|  | Play             | Press and play begins.                                                                            |
|  | Skip             | Press [◀◀, ▶▶].                                                                                   |
|  | Search           | <b>SD VIDEO</b> Press [◀◀, ▶▶] (up to 5 steps).<br>Press [▶] (PLAY) to return to normal play.     |
|   | Enter number     | e.g. To select 123:<br>[1] → [2] → [3] → [ENTER]                                                  |

# Useful functions

## Selecting how to show 4:3 aspect pictures on the LCD

- 1**  **Press once.**
- 2**    **Press [▲▼] to select the monitor mode.**  
**NORMAL:** Normal (displays in 4:3 video aspect)  
**FULL:** Stretched horizontally  
**OFF:** No picture
- If you are not using the LCD on this unit, select "OFF" to conserve power. (The [⏻] indicator flashes)
  - The LCD turns off automatically if you close it.
  - **To exit the screen:** Press [RETURN].

## Adjusting the picture quality on the LCD

- 1**  **Press twice.**
- 2**    **Press [▲▼] to select the item, and [◀▶] to change the setting.**  
**BRIGHT:** Dims or brightens the picture (−5 to 5)  
**COLOUR:** Adjusts the shade of the picture's color (−5 to 5)
- **To exit the screen:** Press [RETURN].

## Skipping 30 seconds forward (MANUAL SKIP) **DVD-VR** **DVD-V** (Except +R/+RW)

Convenient when you want to skip commercials etc.

**During play, press [MANUAL SKIP].**

- This may not work depending on the play position.
- **DVD-VR** Does not work:  
 -with still picture part.  
 -when playing a playlist.

## Repeat play (Only when the elapsed play time can be displayed.) **JPEG** **SD PICTURE:** you can use even if there is no elapsed time display.)

REPEAT

**Press several times to select the content to be repeated.**

Menu

Repeat Off

## To repeat a specified section (A-B Repeat)

Only when the elapsed play time can be displayed.

Except **DVD-VR** (still picture part) **DivX** **JPEG** **SD PICTURE** **MPEG4** and **SD VIDEO**

- 1**  **During play, press once.**
- 2**     
- ① Press [▲▼] to select "Other Settings".
  - ② Press [▶] then [▲▼] to select "Play Menu".
  - ③ Press [▶] then [▲▼] to select "A-B Repeat".
  - ④ Press [ENTER] at the starting and ending points.

Menu

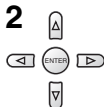
A-B Repeat \*\*

- Press [ENTER] again to cancel.
- **To exit the screen:** Press [RETURN].

## Reviewing titles/programs to play (Advanced Disc Review)

**DVD-VR DVD-V** (Except +R/+RW)

1 DISPLAY  
  
Press once.



- 1 Press [**▲▼**] to select "Other Settings".
- 2 Press [**▶**] then [**▲▼**] to select "Play Menu".
- 3 Press [**▶**] then [**▲▼**] to select "Advanced Disc Review".
- 4 Press [**ENTER**].

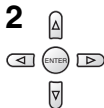
Reviews each title/program.



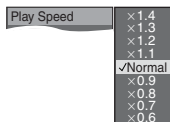
- 5 Press [**▶**, **ON**] when you find a title/program to play.
  - You can also review each 10 minutes. Select "Interval Mode" (→ page 26, "Advanced Disc Review" in "Disc" tab).
  - This may not work depending on the play position.
  - **DVD-VR** Does not work:
    - with still picture part.
    - when playing a playlist.
  - To exit the screen: Press [**RETURN**].

## Changing play speed **DVD-VR DVD-V**

1 DISPLAY  
  
During play, press once.



- 1 Press [**▲▼**] to select "Other Settings".
- 2 Press [**▶**] then [**▲▼**] to select "Play Speed".
- 3 Press [**ENTER**] and [**▲▼**] to select "Normal" or "x0.6" to "x1.4" (in 0.1 units).
- 4 Press [**ENTER**].

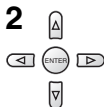


- Press [**▶**, **ON**] to return to normal play.
- After you change the speed
  - H.Bass (→ page 18), Advanced Surround (→ below), Multi Re-master (→ page 18) and Sound Enhancement (→ page 25, Audio Menu) do not work.
  - Digital output switches to PCM.
  - 96 kHz sampling frequency is converted to 48 kHz.
- This may not work depending on the disc's recording.
- This function is effective only when "Monitor Priority" is set to "Video Output" (→ page 26, "Video" tab).
- To exit the screen: Press [**RETURN**].

## Enjoying virtual surround (Advanced Surround)

Motion pictures with 2 or more channels

1 DISPLAY  
  
Press once.



- 1 Press [**▲▼**] to select "Other Settings".
- 2 Press [**▶**] then [**▲▼**] to select "Audio Menu".
- 3 Press [**▶**] then [**▲▼**] to select "Advanced Surround".
- 4 Press [**▶**] then [**▲▼**] to select "SP 1 Natural", "SP 2 Enhanced", "HP 1 Natural" or "HP 2 Enhanced".
- 5 Press [**ENTER**].

A surround sound effect can be made using 2 speakers (on other equipment).

- When **using headphones**, press to select "HP 1 Natural" or "HP 2 Enhanced".
- When using discs recorded with surround sound, sound seems to come from speakers on either side of you.
- Optimum seating position is 3 to 4 times the distance between the front left and right speakers or the width of the television if using the television's speakers.
- This does not work when H.Bass (→ page 18) is on.
- Do not use in combination with surround effects on other equipment.
- To exit the screen: Press [**RETURN**]

# Useful functions

## Changing soundtracks *Motion pictures*

AUDIO



(Remote control)

### Press to select the soundtrack.

**DVD-VR VCD**

You can use this button to select "L", "R" or "LR".

**DivX**

While the menu is displayed

Press [**◀ ▶**] to select "L", "R" or "LR".**DVD-V** (Karaoke discs)

While the menu is displayed,

Press [**◀ ▶**] to select "On" or "Off" of vocals.

Read the disc's instructions for details.

### Signal type/data

LPCM/PPCM/**□□** Digital/DTS/MP3/MPEG: Signal type

kHz (Sampling frequency)/bit/ch (Number of channels)

Example: 3/2 .1ch

- .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

- **DivX** It may take some time for play to start if you change the audio on a DivX video disc.

## Changing subtitles *Discs with subtitles*

SUBTITLE



(Remote control)

**DVD-V VCD DivX**

### Press to select the subtitle language.

#### To clear/display the subtitles

Press [**◀ ▶**] to select "On" or "Off".

- On + R/+ RW, a subtitle number may be shown for subtitles that are not displayed.

**DVD-VR** (with subtitle on/off information)

### Press to select "On" or "Off".

- On or Off only can be selected.

- Subtitle on/off information cannot be recorded using Panasonic DVD Recorders.



## Angle select **DVD-V** with multiple angles /Still picture rotation **JPEG SD PICTURE**

ANGLE



(Remote control)

### Press to select the angle or rotate the still picture.

e.g. **DVD-V**

## Displaying current playback condition (Quick OSD)

DISPLAY



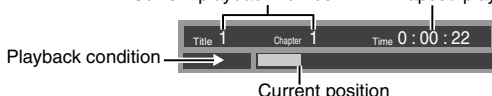
Press twice.

### Basics

e.g. **DVD-V**

Current playback number

Elapsed play time



DISPLAY



Press three times.

### Details

See above for changing soundtracks

See above for changing subtitles

See above, Angle select for changing angles

Aspect of current playback title

e.g. **DVD-V**

• Details-DVD-Video

|                  |         |             |
|------------------|---------|-------------|
| Audio            | 1       | DTS 3/2.1ch |
| Subtitle         | ---     |             |
| Angle            | 1/1     |             |
| Source Aspect    | 4:3     |             |
| Title Total Time | 0:54:28 |             |

Total play time of current playback title

- **MPEG4 DivX** Video and audio information is not displayed during search.

- To exit the screen: Press [**RETURN**].

## All group/Program/Random play

Remote control only

**Except DVD-VR**

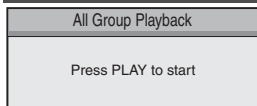


While stopped  
**Press to change.**

**All group (DVD-A) → Program play → Random play**  
 ↑ Off (Normal play) ↓

- Disable HighMAT disc play to use random and program play. Select "Play as Data Disc" in Other Menu. (→ page 25).

**All group play** DVD-A



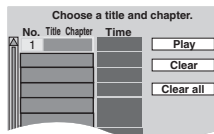
PLAY



**Program play** (up to 32 items)

e.g. **DVD-V**

1



**Press to select an item**  
(Disc → page 11, Enter  
number /  
SD card → page 13, Enter  
number).

2

PLAY



Repeat this step to program other items.

**Selecting all the items (on the disc or in the title or group)**

Press **[ENTER]** and **[▲ ▼]** to select “ALL”, then press **[ENTER]** again to register.

## 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]**).

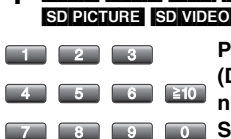
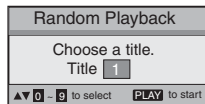
## Clearing the whole program

Select "Clear all" and press **[ENTER]**. The whole program is also cleared when the unit is turned off, the disc lid is opened, the card is removed or **[AV SELECT]** is pressed.

### Random play

e.g. **DVD-V**

1



**Press to select an item.**  
(Disc → page 11, Enter  
number /

2

PLAY



**SD card → page 13, Enter number).**

**To exit the all group, program or random mode**

Press **[PLAYMODE]** several times while stopped.

# Enjoying higher quality audio and video

## Reproducing more natural audio (Multi Re-master)

- **DVD-VR DVD-V** (recorded with 48 kHz only)

**DVD-A** (recorded with 44.1 kHz and 48 kHz only) **VCD CD**:

This feature gives you a more natural sound by adding higher frequency signals not recorded on the disc, for example, playing DVD-Video recorded with 48 kHz at 96 kHz.

- **WMA MP3** (recorded with other than 8 kHz, 16 kHz or 32 kHz): reproduces the frequencies lost during recording to give you a sound closer to the original.

1 DISPLAY



Press once.

2



① Press [**▲▼**] to select "Other Settings".

② Press [**▶**] then [**▲▼**] to select "Audio Menu".

③ Press [**▶**] then [**▲▼**] to select "Multi Re-master".

④ Press [**ENTER**] and [**▲▼**] to select "1", "2" or "3".

⑤ Press [**ENTER**].

• To exit the screen : Press [**RETURN**].



| Setting | Type of music [ <b>DVD-A DVD-V CD</b> (LPCM/PPCM)] | Effect level (Other discs) |
|---------|----------------------------------------------------|----------------------------|
| 1       | High tempo (e.g., pop and rock)                    | Light                      |
| 2       | Various tempos (e.g., jazz)                        | Medium                     |
| 3       | Low tempo (e.g., classical)                        | Strong                     |
| Off     | Off                                                | Off                        |

- This feature does not work when H.Bass (→ below) or Advanced Surround (→ page 15) is on.
- This feature does not work with **MP3** on DVD-RAM or DVD-R/RW.
- When connecting with a digital optical cable (→ page 31), the actual output sampling frequency depends on "PCM Digital Output" setting in "Audio" tab (→ page 27).

## Enjoying heavy bass with the speakers (H.Bass) **DVD-V**

1 DISPLAY



Press once.

2



① Press [**▲▼**] to select "Other Settings".

② Press [**▶**] then [**▲▼**] to select "Audio Menu".

③ Press [**▶**] then [**▲▼**] to select "H.Bass".

④ Press [**▶**] then [**▲▼**] to select "On" or "Off".

⑤ Press [**ENTER**].

• To exit the screen : Press [**RETURN**].

• This is effective on 5.1 channel DVD video discs. This is also effective on some portions of 2 channel discs as well.

• If the sound is distorted or there is noise, set to "Off".



The above indicated features may not work depending on the disc's recording.

## Providing the suitable picture quality for enjoying movies (Cinema1/Cinema2)

**Cinema1:** Mellows images and enhances detail in dark scenes.

**Cinema2:** Sharpens images and enhances detail in dark scenes.

- 1 **DISPLAY** 2   **ENTER**  
- Press once.
- ① Press [**▲▼**] to select “Other Settings”.
  - ② Press [**▶**] then [**▲▼**] to select “Picture Menu”.
  - ③ Press [**▶**] to select “Picture Mode”.
  - ④ Press [**▶**] then [**▲▼**] to select “Cinema1” or “Cinema2”.
- To exit the screen : Press [**RETURN**].

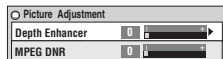


## Reducing noise in pictures (Depth Enhancer/MPEG DNR)

**Depth Enhancer:** Reduces the rough noise in the background to give a greater feeling of depth.

**MPEG DNR:** Smoothes block noise and reduces the smudging that appears around contrasting sections of the picture.

- 1 **DISPLAY** 2   **ENTER**  
- Press once.
- ① In the procedure 2–④ (→ above, Cinema1/Cinema2), select “User” and press [**ENTER**].
  - ② Press [**▲▼**] to select “Picture Adjustment” and press [**ENTER**].
  - ③ Press [**▲▼**] to select “Depth Enhancer” or “MPEG DNR”.
  - ④ Press [**◀▶**] to change the setting. (Depth Enhancer: 0 to +4, MPEG DNR: 0 to +3)
- To exit the screen : Press [**RETURN**].



## Enjoying extra bass with headphones (Only when headphones are connected)

 **EQ  
MODE**

**XBS** ↔ **NORMAL**

**XBS:** Boosts the bass.

**NORMAL:** Normal sound

Press to change.

- Effects will differ depending on the type of music.

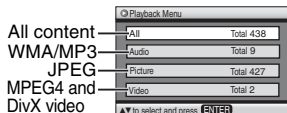
# Playing data discs

WMA MP3 JPEG MPEG4 DivX

- Select "Play as Data Disc" (→ page 25, Other Menu) in the following cases:  
-To play HighMAT discs without using the HighMAT function.  
-To play **JPEG**, **MP3**, **MPEG4** or **DivX** on DVD-RAM that contain both **DVD-VR** and another format (e.g. **JPEG**).

## Playing items in order (Playback Menu)

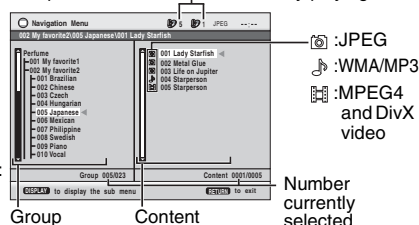
- While the menu is displayed
- Press [▲▼] to select "All", "Audio", "Picture" or "Video" and press [ENTER].
- To display/exit the screen:  
Press [TOP MENU].



## Playing from the selected item (Navigation Menu)

- 1 MENU** **2** Press [▲▼◀▶] to select the group and press [ENTER].
- Press.
- To play content in the group in order:  
Press [ENTER].
  - To start play from the selected content:  
Press [▲▼] to select and press [ENTER].

Group and content number currently playing



- To listen to WMA/MP3 while showing a JPEG image on the screen  
Select a JPEG file first, and then select WMA/MP3. (The opposite order is not effective.)
- To exit the screen: Press [MENU].

## Using the submenu

While the navigation menu (→ see above) is displayed.

- 1 Press [DISPLAY].
- 2 Press [▲▼] to select the sub menu and press [ENTER].

### Submenu

|                |                                                                       |
|----------------|-----------------------------------------------------------------------|
| Multi          | Groups and content                                                    |
| List           | Content only                                                          |
| Tree           | Groups only                                                           |
| Thumbnail      | Thumbnail images <b>JPEG</b>                                          |
| Next group     | To the next group                                                     |
| Previous group | To the previous group                                                 |
| All            | All content                                                           |
| Audio          | WMA/MP3 only                                                          |
| Picture        | JPEG only                                                             |
| Video          | MPEG4 and DivX video only                                             |
| Help display   | To switch between guide messages and the playback condition indicator |
| Find           | To search by content or group title (→ see below)                     |

## Searching by a content or group title

Press [◀▶] to highlight a group title to search a group, or a content title to search its content.

- 1 Select "Find" and press [ENTER]. (→ see above)
- 2 Press [▲▼] to select a character and press [ENTER].



- Repeat to enter another character.
- Lower case is also searched.
- Press and hold [◀▶] to skip between A, E, I, O and U.
- Press [◀] to erase a character.
- Erase the asterisk (\*) to search for titles starting with that character.

- 3 Press [▶] to select "Find" and press [ENTER]. The search result screen appears.
- 4 Press [▲▼] to select the content or group and press [ENTER].

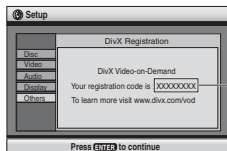
# About DivX VOD content

DivX Video-on-Demand (VOD) content is encrypted for copyright protection. In order to play DivX VOD content on this unit, you first need to register the unit.

Follow the on line instructions for purchasing DivX VOD content to enter the unit's registration code and register the unit. For more information about DivX VOD, visit [www.divx.com/vod](http://www.divx.com/vod).

## Display the unit's registration code

(→ page 27, "DivX Registration" in "Others" tab)



8 alphanumeric characters

- We recommend that you make a note of this code for future reference.
- After playing DivX VOD content for the first time, another registration code is then displayed in "DivX Registration". Do not use this registration code to purchase DivX VOD content. If you use this code to purchase DivX VOD content, and then play the content on this unit, you will no longer be able to play any content that you purchased using the previous code.
- If you purchase DivX VOD content using a registration code different from this unit's code, you will not be able to play this content. ("Authorization Error" is displayed.)

## Regarding DivX content that can only be played a set number of times

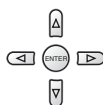
Some DivX VOD content can only be played a set number of times. When you play this content, the remaining number of plays is displayed. You cannot play this content when the number of remaining plays is zero. ("Rented Movie Expired" is displayed.)

When playing this content

- The number of remaining plays is reduced by one if
  - you turn off the unit or display "Setup" menu.
  - you press [■]. (Press [II] to stop play.)
  - you press [◀▶▶▶] or [◀◀▶▶] etc. and arrive at another content or the start of the content being played.
- Resume play (→ page 10, Stop) and Marker (→ page 24, Play Menu) do not work.

# Playing HighMAT™ discs

WMA MP3 JPEG



While the menu is displayed  
Press [**▲▼◀▶**] to select items  
and press [**ENTER**].



**Menu:**  
Takes you to the next menu which shows playlists or another menu.  
**Playlist:**  
Play starts.

- To return to the menu screen, press [**TOP MENU**] then press [**RETURN**] several times.
- To change the menu background, press [**DISPLAY**]. The background changes to the one recorded on the disc.
- To display/exit the screen: press [**TOP MENU**].

## Selecting from the list

1. Press [**MENU**].
  2. Press [**◀**] then [**▲▼**] to switch among "Playlist", "Group" and "Content" lists.
  3. Press [**▶**] then [**▲▼**] to select an item and press [**ENTER**].
- To exit the screen: Press [**MENU**].



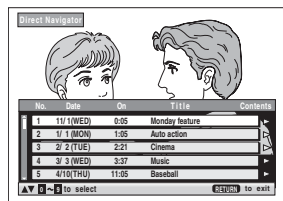
# Playing programs/playlists

DVD-VR

- Titles appear only if they have been entered.
- You cannot edit playlists and titles.

## 1 To play programs:

TOP MENU

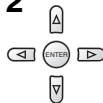


## To play playlists:

MENU



2



Press [**▲▼**] to select the program or playlist and press [**ENTER**].

- Only when the disc contains a playlist.

- You can also use the **numbered buttons** on the remote control (→ page 11).
- Press [**▶**] to show the contents of the program (Only when playing the program).
- To exit the screen: Press [**RETURN**].

# Playing CD using menus

CD

Titles appear with CD text playback.

## 1 MENU

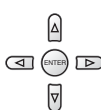


Press.

e.g. CD text



2



Press [**▲▼**] to select the tracks and press [**ENTER**].

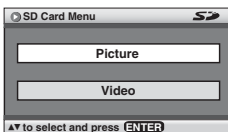
- To exit the screen : Press [**RETURN**].

Press [**DISPLAY**] to switch between guide messages and the playback condition indicator.

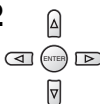
# Playing SD cards using menus SD PICTURE SD VIDEO

## Playing items in order (SD Card Menu)

- 1 **TOP MENU**
- 
- Press.



2



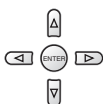
Press [▲▼] to select "Picture" or "Video" and press [ENTER].

- When "No picture content" or "No video content" is displayed, press [TOP MENU] again to return to the SD Card Menu.

## Playing from the selected item (Navigation Menu)

- 1 **MENU**
- 
- Press.

2

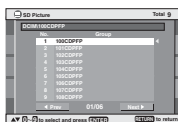


### SD PICTURE

Press [▲▼◀▶] to select the content and press [ENTER].

To select contents in the other group

- ① Press [▲] to select "Group" and press [ENTER].
- ② Press [▲▼◀▶] to select the group and press [ENTER].
- ③ Press [▲▼◀▶] to select the content and press [ENTER].



### SD PICTURE



### SD VIDEO



### SD VIDEO

Press [▲▼◀▶] to select the content.

- To show other pages: Press [▲▼◀▶] to select "Prev" or "Next" and press [ENTER].
- To exit the screen: Press [MENU].

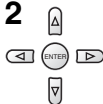
# Using On-Screen Menus

1 DISPLAY



Press once.

2



① Press [▲▼] to select the menu.

② Press [▶] to go to the next menu and [▲▼] to set.

Repeat step ② if necessary.

- Items shown differ depending on the type of software.
- Press [◀] to go to the previous menu.
- There are items which you can select using the **numbered buttons** and [ENTER] on the remote control.
- If the setting does not change, press [ENTER].
- To exit the screen: Press [RETURN].

## Main menus

| Program, Group, Title<br>Chapter, Track, Playlist, Content | To start from a specific item                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                            | <ul style="list-style-type: none"> <li>• Press [▲▼] to select and press [ENTER].</li> <li>• Press and hold [▲▼] to alter faster.</li> </ul>                                                                                                                                                                                                                                                                                                                            |
| Time                                                       | <p>To skip incrementally or decrementally (Time Slip for play only) (Except +R/+RW)</p> <ol style="list-style-type: none"> <li>1. Press [ENTER] twice to show Time Slip indicator.</li> <li>2. Press [▲▼] to select the time and press [ENTER].</li> </ol> <ul style="list-style-type: none"> <li>• Press and hold [▲▼] to alter faster.</li> </ul> <p>To start from a specific time (Time Search) (Except +R/+RW)</p> <p>To change remaining/elapsed time display</p> |
| Video                                                      | <p>To display pixel number</p> <p>DivX fps (frame per second) is also displayed.</p>                                                                                                                                                                                                                                                                                                                                                                                   |
| Audio                                                      | <p>(→ page 16, Changing soundtracks)</p> <p>To display the current bitrate or sampling frequency</p>                                                                                                                                                                                                                                                                                                                                                                   |
| Still Picture                                              | To switch still picture                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Thumbnail                                                  | To show thumbnail images                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Subtitle                                                   | (→ page 16, Changing subtitles)                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Marker (VR)                                                | To recall a marker recorded on DVD recorders                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Angle                                                      | (→ page 16, Angle select)                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Rotate Picture                                             | (→ page 16, Still picture rotation)                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Slideshow                                                  | <p>To turn on/off slideshow</p> <p>To change the slideshow timing ("1 Fast" to "5 Slow")</p> <ul style="list-style-type: none"> <li>• When using Slideshow, Skip/Rotate picture may not work correctly depending on the play position.</li> </ul>                                                                                                                                                                                                                      |
| Other Settings                                             | (→ See below)                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## Other Settings

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Play Speed           | (→ page 15, Changing play speed)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Play Menu            | (Only when the elapsed play time can be displayed,<br>JPEG SD PICTURE : The Repeat and Marker functions can be used.)                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Repeat               | (→ page 14, Repeat play)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| A-B Repeat           | (→ page 14)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Marker               | <p>To mark up to 5 positions to play again</p> <p>[ENTER] (The unit is now ready to accept markers.)</p> <p>To mark a position: [ENTER] (at the desired point)</p> <p>To mark another position: [◀▶] to select "*" → [ENTER]</p> <p>To recall a marker: [◀▶] → [ENTER]</p> <p>To erase a marker: [◀▶] → [CANCEL] (Remote control)</p> <ul style="list-style-type: none"> <li>• This feature doesn't work during program and random play.</li> <li>• Markers you add clear when you open the disc lid, remove the card, press [AV SELECT] or switch the unit to standby.</li> </ul> |
| Except DVD-VR        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Advanced Disc Review | (→ page 15)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

## Picture Menu

|               |                                                                                                                                                                                                                                                                                  |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Picture Mode  | (→ page 19, Cinema1/Cinema2/Depth Enhancer/MPEG DNR)                                                                                                                                                                                                                             |
| Source Select | When you select "Auto" the constructing method of the DivX contents is automatically distinguished and output. If the picture is distorted, select "I (Interlace)" or "P (Progressive)" depending on which constructing method was used when the contents were recorded to disc. |
| DivX          | Auto I (Interlace) P (Progressive)                                                                                                                                                                                                                                               |

## Audio Menu

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>H.Bass</b>            | (→ page 18)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Advanced Surround</b> | (→ page 15)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Dialogue Enhancer</b> | <p><b>To make the dialogue in movies easier to hear</b><br/> <b>DVD-V</b> (Dolby Digital, DTS, MPEG, 3-channel or over, with the dialogue recorded in the center channel)<br/> <b>On</b> ↔ <b>Off</b><br/> <b>DivX</b> (Dolby Digital, 3-channel or over, with the dialogue recorded in the center channel)<br/> <b>On</b> ↔ <b>Off</b></p>                                                                                                                                                                                                                                                                                         |
| <b>Multi Re-master</b>   | (→ page 18)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Sound Enhancement</b> | <p><b>You can enjoy comfortable, analog-like sound.</b><br/> <b>DVD-VR</b> <b>DVD-V</b> (recorded with 48 kHz only)<br/> <b>DVD-A</b> (recorded with 44.1 kHz and 48 kHz only) <b>VCD</b> <b>CD</b><br/> <b>WMA</b> <b>MP3</b> (recorded with other than 8 kHz, 16 kHz or 32 kHz)<br/> <b>On</b> ↔ <b>Off</b></p> <ul style="list-style-type: none"> <li>• This feature does not work with <b>MP3</b> on DVD-RAM or DVD-R/RW.</li> <li>• This does not work when H.Bass (→ page 18), Advanced Surround (→ page 15) or Multi Re-master (→ page 18) is on.</li> <li>• This may not work depending on the disc's recording.</li> </ul> |

## Display Menu

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Information</b>         | <b>On</b> ↔ <b>Off</b> ( <b>JPEG</b> <b>SD PICTURE</b> : <b>Off</b> , <b>Date</b> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Subtitle Position</b>   | <b>0 to -60</b> (in 2 units)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Subtitle Brightness</b> | <b>Auto, 0 to -7</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Just Fit Zoom</b>       | <p><b>Motion pictures</b><br/>         To expand the letterbox picture to fit the screen.<br/>         Press [<b>▲</b> <b>▼</b>] to select the preset aspect ratio or "Auto".<br/> <b>DVD-VR</b> <b>DVD-V</b> <b>VCD</b><br/>         Auto ↔ 4:3 Standard ↔ European Vista ↔ 16:9 Standard</p> <p>↕</p> <p>Cinemascope2 ↔ Cinemascope1 ↔ American Vista</p> <ul style="list-style-type: none"> <li>• Depending on the disc, the preset aspect ratio may not be displayed.</li> <li>• This function is effective only when "Monitor Priority" is set to "Video Output" (→ page 26, "Video" tab).</li> </ul> <p><b>MPEG4</b> <b>DivX</b> <b>SD VIDEO</b><br/>         Standard ↔ Original<br/>         ↕ Full ↕</p> |
| <b>Manual Zoom</b>         | <p><b>Motion pictures</b><br/>         Press [<b>▲</b> <b>▼</b>] for fine adjustments. (Press and hold to alter faster.)<br/>         –from ×1.00 to ×1.60 (in 0.01 units) –from ×1.60 to ×2.00 (in 0.02 units)<br/> <b>MPEG4</b> <b>DivX</b> <b>SD VIDEO</b> only<br/>         –from ×2.00 to ×4.00 (in 0.05 units)<br/>         It may not be possible to zoom up to ×4.00 depending upon the connected television and its settings.</p> <ul style="list-style-type: none"> <li>• <b>DVD-VR</b> <b>DVD-V</b> <b>VCD</b> This function is effective only when "Monitor Priority" is set to "Video Output" (→ page 26, "Video" tab).</li> </ul>                                                                   |
| <b>Bit Rate Display</b>    | <b>Motion pictures</b> <b>On</b> ↔ <b>Off</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>GUI See-through</b>     | <b>Off, On, Auto</b> (Switches on automatically when the images appear on the display.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

## Other Menu

|                                                                                   |                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Setup</b>                                                                      | (→ page 26, Changing the player settings)                                                                                                                                                                                                                                                  |
| <b>Play as DVD-Video</b><br>or<br><b>Play as DVD-Audio</b>                        | Select "Play as DVD-Video" to play DVD-Video contents on DVD-Audio.                                                                                                                                                                                                                        |
| <b>Play as DVD-VR</b><br><b>Play as HighMAT</b><br>or<br><b>Play as Data Disc</b> | <ul style="list-style-type: none"> <li>• Select "Play as Data Disc" to play <b>JPEG</b>, <b>MP3</b>, <b>MPEG4</b> or <b>DivX</b> on DVD-RAM that contain both <b>DVD-VR</b> and another format (e.g. <b>JPEG</b>) or to play a HighMAT disc without using the HighMAT function.</li> </ul> |

# Changing the player settings

• Referring to pages 26 to 27, change as required.

• Underlined items are the factory presets.

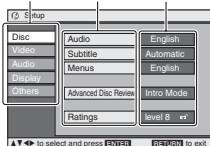
The settings remain intact even if you switch the unit to standby.

**1**  **2**  Press [**▲ ▼ ◀ ▶**] to select the menu, item, content and press [**ENTER**].

(Remote control)

(Remote control or main unit)

## Menu Item Content



• To return to the previous screen: press [**RETURN**].

• To exit the screen: Press [**RETURN**].

• The menu is also displayed using on-screen menus.

(→ page 25, "Setup" in Other Menu)

## "Disc" tab

|                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                 |                                                                                                                                                                          |
|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Audio</b>                                                                                           | <ul style="list-style-type: none"> <li>• <u>English</u></li> <li>• Other****#3</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                      | <ul style="list-style-type: none"> <li>• Original #1</li> </ul> | <b>Language Options</b>                                                                                                                                                  |
| <b>Subtitle</b>                                                                                        | <ul style="list-style-type: none"> <li>• <u>Automatic</u>#2</li> <li>• English</li> <li>• Other****#3</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                               |                                                                 | <ul style="list-style-type: none"> <li>• French</li> <li>• Italian</li> <li>• Polish</li> <li>• Dutch</li> <li>• German</li> <li>• Spanish</li> <li>• Swedish</li> </ul> |
| <b>Menus</b>                                                                                           | <ul style="list-style-type: none"> <li>• <u>English</u></li> <li>• Other****#3</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                 |                                                                                                                                                                          |
| <b>Advanced Disc Review</b><br>Select how to review<br>(→ page 15).                                    | <ul style="list-style-type: none"> <li>• <u>Intro Mode</u>: Reviews each title/program.</li> <li>• <u>Interval Mode</u>: Reviews each 10 minutes.</li> </ul>                                                                                                                                                                                                                                                                                                                                                   |                                                                 |                                                                                                                                                                          |
| <b>Ratings</b><br>Set a ratings level to limit DVD-Video play.<br>• Follow the on-screen instructions. | Setting ratings (When level 8 is selected)<br>• <u>8 No Limit</u><br>• 1 to 7: To prohibit play of DVD-Video with corresponding ratings recorded on them.<br>• 0 Lock All: To prevent play of discs without ratings levels.<br>When setting a ratings level, a password screen is shown.<br>Follow the on-screen instructions.<br><b>Do not forget your password.</b><br>A message screen will be shown if a DVD-Video exceeding the ratings level is inserted in the unit. Follow the on-screen instructions. |                                                                 |                                                                                                                                                                          |

#1 The original language designated on the disc is selected.

#2 If the language selected for "Audio" is not available, subtitles appear in that language (If available on the disc).

#3 Input a code number referring to the table on page 27.

## "Video" tab

|                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |
|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| <b>Monitor Priority</b><br>Choose the video output mode.                                                   | <ul style="list-style-type: none"> <li>• <u>Internal LCD</u>: Video output is suitable for the LCD on this unit.</li> <li>• Video Output: When connected to a television.</li> </ul>                                                                                                                                                                                                                                                                     |  |  |
| <b>TV Aspect</b><br>Choose the setting to suit your television and preference.                             | <ul style="list-style-type: none"> <li>• 4:3 Pan&amp;Scan: Regular aspect television (4:3)<br/>The sides of the widescreen picture are cut off so it fills the screen (unless prohibited by the disc).</li> <li>• 4:3 Letterbox: Regular aspect television (4:3)<br/>Widescreen picture is shown in the letterbox style.</li> <li>• 16:9: Widescreen television<br/>Use the television's screen modes to change the way the picture is shown.</li> </ul> |  |  |
| <b>Still Mode</b><br>Specify the type of picture shown when paused.                                        | <ul style="list-style-type: none"> <li>• <u>Automatic</u></li> <li>• Field: The picture is not blurred, but picture quality is lower.</li> <li>• Frame: Overall quality is high, but the picture may appear blurred.</li> </ul>                                                                                                                                                                                                                          |  |  |
| <b>NTSC Disc Output</b><br>Choose PAL 60 or NTSC output when playing NTSC discs.                           | <ul style="list-style-type: none"> <li>• <u>PAL60</u>: When connected to a PAL television</li> <li>• NTSC: When connected to an NTSC television</li> </ul>                                                                                                                                                                                                                                                                                               |  |  |
| <b>Picture/Video Output</b><br>Choose the video signal format to be output for JPEG, MPEG4 and DivX video. | <ul style="list-style-type: none"> <li>• <u>Automatic</u></li> <li>• PAL</li> <li>• NTSC/PAL60: Output will depend on "NTSC Disc Output" setting (→ above).<br/>If picture output is not smooth during playback, change the setting.</li> </ul>                                                                                                                                                                                                          |  |  |

## “Audio” tab

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PCM Digital Output*       | Check the digital input limitations of the equipment you connect and select the maximum sampling frequency of PCM digital output. <ul style="list-style-type: none"><li>● Off: When not connected using a digital optical cable</li><li>● Up to 48 kHz: When connected to equipment compatible with 44.1 or 48 kHz</li><li>● Up to 96 kHz: When connected to equipment compatible with 88.2 or 96 kHz</li><li>● Up to 192 kHz: When connected to equipment compatible with 176.4 or 192 kHz</li><li>● Signals from copy-protected discs are converted to 48 or 44.1 kHz.</li><li>● Some equipment cannot handle sampling frequencies of 88.2 kHz, even if it can handle 96 kHz. Read your equipment's operating instructions for details.</li></ul> |                                                                                                                                                                                                                                                                             |
| Dolby Digital*            | <ul style="list-style-type: none"><li>● Bitstream</li><li>● PCM</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Select "Bitstream" when the equipment can decode the bitstream (digital form of multi-channel data). Otherwise, select "PCM". (If the bitstream is output to the equipment without a decoder, high levels of noise can be output and may damage your speakers and hearing.) |
| DTS Digital Surround*     | <ul style="list-style-type: none"><li>● Bitstream</li><li>● PCM</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                             |
| MPEG*                     | <ul style="list-style-type: none"><li>● PCM</li><li>● Bitstream</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                             |
| Dynamic Range Compression | <ul style="list-style-type: none"><li>● Off</li><li>● On: Adjusts for clarity even when the volume is low through compressing the range of the lowest sound level and the highest sound level. Convenient for late night viewing. (Only works with Dolby Digital.)</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                             |

\* Only when connected using a digital optical cable (→ page 31)

## “Display” tab

|                                                               |                                                                                        |
|---------------------------------------------------------------|----------------------------------------------------------------------------------------|
| <b>Menu Language</b>                                          | ● English ● Français ● Deutsch ● Italiano ● Español<br>● Polski ● Svenska ● Nederlands |
| <b>On-Screen Messages</b>                                     | ● On ● Off                                                                             |
| <b>Background during Play</b>                                 | ● Black ● Gray                                                                         |
| Select background during JPEG, MPEG4 and DivX video playback. |                                                                                        |

## “Others” tab

|                                                                                                     |                                                                                                                                                                                                                                                       |
|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DivX Registration</b>                                                                            | You need this registration code to purchase and play DivX Video-on-Demand (VOD) content. (→ page 21)                                                                                                                                                  |
| <b>Re-initialise Setting</b><br>This returns all values in the Setup menus to the default settings. | ● Yes: The password screen is shown if “Ratings” (→ page 26) is set. Please enter the same password and press [ENTER]. When “Initialised” appears on the screen, wait for about 10 seconds. Press [ENTER] and turn the unit off and on again.<br>● No |

## Language code list

|                       |                   |                        |                  |                      |                  |
|-----------------------|-------------------|------------------------|------------------|----------------------|------------------|
| Abkhazian: 6566       | Catalan: 6765     | Hausa: 7265            | Lithuanian: 7684 | Rhaeto-Romance: 8471 | Tajik: 8471      |
| Afar: 6565            | Chinese: 9072     | Hebrew: 7387           | Macedonian: 7775 | Romanian: 8277       | Tamil: 8465      |
| Afrikaans: 6570       | Corsican: 6779    | Hindi: 7273            | Malagasy: 7771   | Russian: 8279        | Tatar: 8484      |
| Albanian: 6381        | Croatian: 7282    | Hungarian: 7285        | Malay: 7783      | Samoan: 8377         | Telugu: 8469     |
| Ameharic: 6577        | Czech: 6783       | Icelandic: 7383        | Malayalam: 7776  | Sanskrit: 8365       | Thai: 8472       |
| Arabic: 6582          | Danish: 6865      | Indonesian: 7378       | Maltese: 7784    | Scots Gaelic: 7168   | Tibetan: 6679    |
| Armenian: 7289        | Dutch: 7876       | Interlingua: 7365      | Maori: 7773      | Serbian: 8382        | Tigrinya: 8473   |
| Assamese: 6583        | English: 6978     | Irish: 7165            | Marathi: 7782    | Serbo-Croatian: 8372 | Tonga: 8479      |
| Aymara: 6589          | Esperanto: 6979   | Italian: 7384          | Moldavian: 7779  | Shona: 8378          | Turkish: 8482    |
| Azerbaijani: 6590     | Estonian: 6984    | Japanese: 7465         | Mongolian: 7778  | Nepali: 7869         | Turkmen: 8475    |
| Bashkir: 6665         | Faroese: 7079     | Javanese: 7487         | Nauru: 7865      | Norwegian: 7879      | Ukrainian: 8575  |
| Basque: 6985          | Fiji: 7074        | Kannada: 7578          | Nepali: 7869     | Oriya: 7982          | Urdu: 8582       |
| Bengali, Bangla: 6678 | Finnish: 7073     | Kashmiri: 7583         | Norwegian: 7879  | Pashto, Pushto: 8083 | Uzbek: 8590      |
| Bhutani: 6890         | French: 7082      | Kazakh: 7575           | Persian: 7065    | Punjabi: 8065        | Vietnamese: 8673 |
| Bihari: 6672          | Frisian: 7089     | Kurdish: 7585          | Polish: 8076     | Quechua: 8185        | Volapük: 8679    |
| Breton: 6682          | Galician: 7176    | Laotian: 7679          | Portuguese: 8084 |                      | Welsh: 6789      |
| Bulgarian: 6671       | Georgian: 7565    | Latin: 6976            | Swahili: 8387    |                      | Wolof: 8779      |
| Burmese: 7789         | German: 6869      | Latvian, Lettish: 7686 | Swedish: 8386    |                      | Xhosa: 8872      |
| Byelorussian: 6669    | Greek: 6976       | Lingala: 7678          | Tagalog: 8476    |                      | Yiddish: 7473    |
| Cambodian: 7577       | Greenlandic: 7576 |                        |                  |                      | Yoruba: 8979     |
|                       | Guarani: 7178     |                        |                  |                      | Zulu: 9085       |
|                       | Gujarati: 7185    |                        |                  |                      |                  |

# Enjoying in a car

- Do not leave the unit on a surface that may become hot such as a dashboard. The unit is not heat-resistant so may malfunction.
- The driver must not operate this unit while the vehicle is moving.  
Do not operate this unit where it can be viewed by the driver.  
Driver operation or viewing of this unit while the vehicle is moving will cause distraction which may result in serious accident and personal injury or property damage.

## Enjoying video in the back seat with the Headrest Mounting Bracket

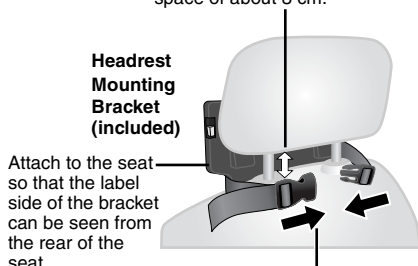
You can enjoy video in the back seat attaching the unit to the back of the front seat.

- Please insert the disc or card before attaching the unit to the headrest bracket.

- Do not attach or detach while driving, and do not attach in the following locations, otherwise it may result in injury or traffic accidents:
  - anywhere other than the back of the seat
  - in a location that interferes with the driver's view or operation of the car
  - in a location that interferes with the operation of an airbag
  - in a location that interferes with the driving instruments
- Make sure that the bracket belt is securely fastened, and check the lock on the unit.  
In the event of an accident, sudden acceleration, or braking, the unit could become loose and cause injury.

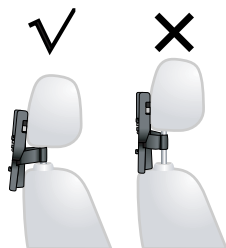
### 1 Attaching the headrest bracket to the front seat.

- ① Adjust the headrest so there is an open space of about 3 cm.



Attach to the seat so that the label side of the bracket can be seen from the rear of the seat.

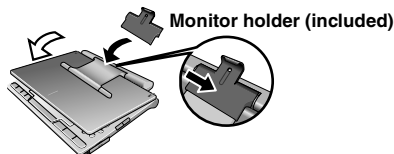
Side view



- ② Close the buckle and adjust the belt until it fits tightly around the headrest.

### 2 Attaching the monitor holder.

- ① Fold the monitor down towards the front of the unit and attach the monitor holder.



Monitor holder (included)

- ② Rotate the monitor backwards so the screen is facing out, and lock into place with the monitor holder.



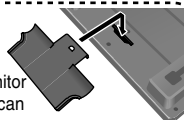
Check that the monitor is locked into position.

### Detaching the monitor



Press the monitor holder as shown to detach it.

After use, detach the monitor holder from the unit. You can store it in the bracket.

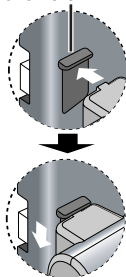


### 3 Attaching the unit to the bracket.

While holding the unit with both hands, line up the unit just below the protruding sections on the bracket. Press the unit down about 4 to 5 mm so that the protrusions on the bracket fit into the holes on the bottom of the unit.

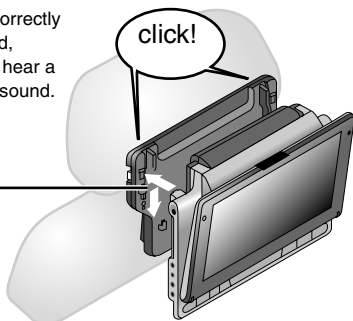
- Please check the following points before use.
  - The bracket is securely fastened to the unit.
  - The unit is not loose and cannot be lifted upwards.

Line up the protruding sections here.

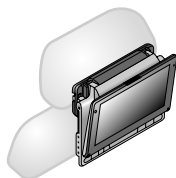


When correctly attached, you will hear a locking sound.

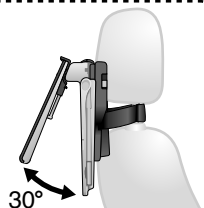
click!



#### Diagram of attached bracket

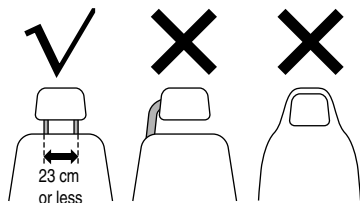


Use the monitor in the open position as shown in the illustration to the right to prevent abnormal audio or damage resulting from vibrations in the car. The angle of the monitor can be adjusted up to about 30°.

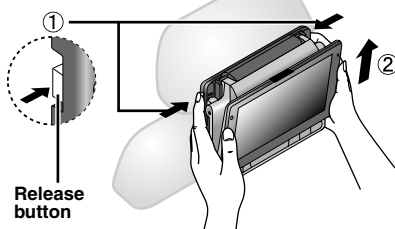


- The angle of the monitor may shift while driving due to vibration, etc.

- Depending on the type of headrest, you may not be able to attach the bracket.



#### Releasing the unit from the bracket



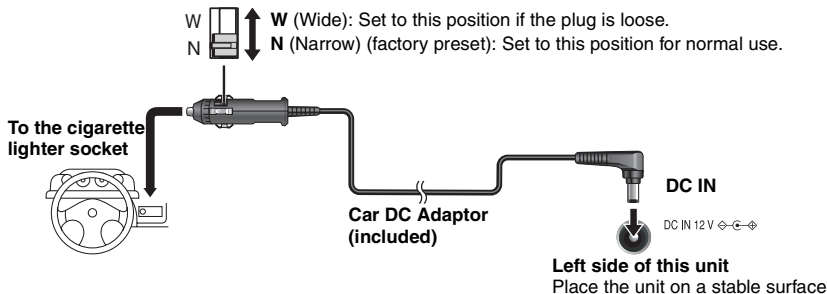
- ① Press the release buttons (left and right) in towards the center of the bracket.
  - ② Lift the unit up to release it.
- Do not press the release buttons any time other than when detaching the unit from the bracket.

# Enjoying in a car

## Connecting the included Car DC Adaptor

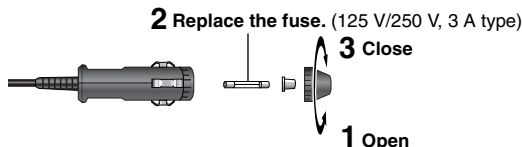
Before connection, consult your car owner's manual or your dealer.

- Connect to the cigarette lighter socket of a vehicle that has a 12 V battery. It is not compatible with a vehicle that has a 24 V battery.
- This is a special negative grounded Car DC Adaptor. Using this Car DC Adaptor with a plus grounded car can cause malfunction and lead to fire.



### Replacing the fuse

Replace only with the specified 125 V/250 V, 3 A fuse. Use of any other type can cause fire.



### Cautions

#### • To avoid draining your car battery

- Disconnect the Car DC Adaptor from the cigarette lighter after use. The Car DC Adaptor continues to consume some power even if it is not being used, and if a battery pack is attached to this unit, it will start recharging which uses more power.
- Do not use the Car DC Adaptor for long periods when the engine is not running.
- Turn the unit off before stopping the engine while using Car DC Adaptor, otherwise resume play (→ page 10) may not work.
- Leave some slack in the cord.
- No responsibility will be taken for damage that occurs due to faulty installation.



(Left side of this unit)

You can enjoy audio through your car audio system by connecting a car stereo cassette adaptor (not included: RP-CC20) to the headphone jack on the left side of this unit.

# Using this unit with other equipment

Turn off all equipment before connecting and read the appropriate operating instructions.

## Enjoying with 5.1ch audio

Left side of this unit

AUDIO/OPT OUT

Digital optical cable (not included)

- Do not bend sharply.
- Align and insert.

AV amplifier with Dolby Digital/ DTS logo



OPTICAL IN

Connect the 6 speakers to the amplifier's 5.1 ch audio output terminals.

- Change "PCM Digital Output", "Dolby Digital", "DTS Digital Surround" and "MPEG" (→ page 27).

- **DVD-A** Output will be only 2 channels.

## Enjoying with 2 ch audio

Left side of this unit

AUDIO/OPT OUT

Audio cable (not included)

Black

Amplifier/System component

White

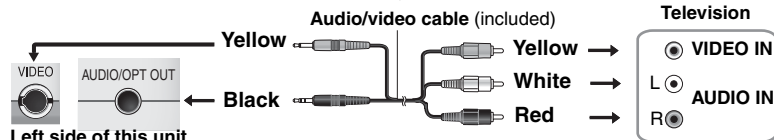
L

AUDIO IN

R

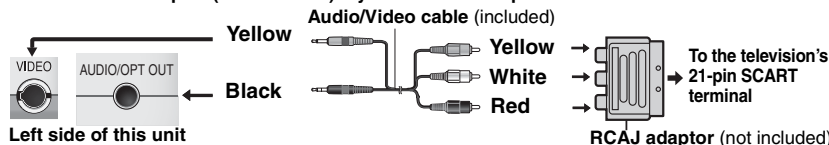
## Enjoying with a television

- Connect the video output from this unit directly to the television.
- Set "Monitor Priority" to "Video Output" (→ page 26, "Video" tab).



Left side of this unit

Use the RCAJ adaptor (not included) if your TV has a 21-pin SCART terminal.

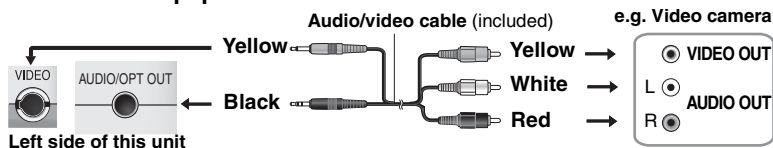


Left side of this unit

- The unit's speakers do not have magnetic shielding. Do not place the unit near televisions, personal computers or other devices easily influenced by magnetism. Do not keep this unit and magnetized cards (bank cards, commuter passes, etc.) close together.
- If you raise the volume on the television while playing this unit, the volume may abruptly become very loud when you switch to a television broadcast. Return the volume to its normal level before changing.

## Watching video from other equipment

### 1 Connect the equipment to this unit.



### 2 Press [AV SELECT] to switch to "AUX".

"AUX" lights on the unit's display.

- Operate playback using the connected equipment. (Please read the operating instructions for the connected equipment)
- The unit does not turn off automatically while "AUX" mode is on. Turn the unit off when you have finished using it.

Using this unit with other equipment

# Tips for making data discs

| Format       | Disc                                    | Extension                              | Reference                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------|-----------------------------------------|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>WMA</b>   | <b>CD-R/RW</b>                          | “.WMA”<br>“.wma”                       | <ul style="list-style-type: none"> <li>Compatible compression rate: between 48 kbps and 320 kbps</li> <li>You cannot play WMA files that are copy protected.</li> <li>This unit is not compatible with Multiple Bit Rate (MBR: a file that contains the same content encoded at several different bit rates).</li> </ul>                                                                                                                                                                                                                                                                           |
| <b>MP3</b>   | <b>DVD-RAM<br/>DVD-R/RW<br/>CD-R/RW</b> | “.MP3”<br>“.mp3”                       | <ul style="list-style-type: none"> <li>Sampling frequency:<br/>DVD-RAM, DVD-R/RW :<br/>11.02, 12, 22.05, 24, 44.1 and 48 kHz<br/>CD-R/RW :<br/>8, 11.02, 12, 16, 22.05, 24, 32, 44.1 and 48 kHz</li> <li>Compatible compression rate: between 32 kbps and 320 kbps</li> <li>This unit is not compatible with ID3 tags.</li> </ul>                                                                                                                                                                                                                                                                  |
| <b>JPEG</b>  | <b>DVD-RAM<br/>DVD-R/RW<br/>CD-R/RW</b> | “.JPG”<br>“.jpg”<br>“.JPEG”<br>“.jpeg” | <ul style="list-style-type: none"> <li>JPEG files taken on a digital camera that conform to DCF Standard Version 1.0 are displayed.</li> <li>Files that have been altered, edited or saved with computer picture editing software may not be displayed.</li> <li>This unit cannot display moving pictures, MOTION JPEG and other such formats, still pictures other than JPEG (e.g. TIFF) or play pictures with attached audio.</li> </ul>                                                                                                                                                         |
| <b>MPEG4</b> | <b>DVD-RAM<br/>DVD-R/RW<br/>CD-R/RW</b> | “.ASF”<br>“.asf”                       | <ul style="list-style-type: none"> <li>You can play MPEG4 data [conforming to SD VIDEO specifications (ASF standard)/MPEG4 (Simple Profile) video system/G.726 audio system] recorded with the Panasonic SD multi cameras or DVD recorders with this unit.</li> <li>The recording date may differ from that of the actual date.</li> </ul>                                                                                                                                                                                                                                                         |
| <b>DivX</b>  | <b>DVD-RAM<br/>DVD-R/RW<br/>CD-R/RW</b> | “.DIVX”<br>“.divx”<br>“.AVI”<br>“.avi” | <ul style="list-style-type: none"> <li>Plays all versions of DivX video (including DivX® 6) [DivX video system/MP3, Dolby Digital or MPEG audio system] with standard playback of DivX® media files. Functions added with DivX Ultra are not supported.</li> <li>GMC (Global Motion Compensation) is not supported.</li> <li>DivX files greater than 2GB or have no index may not play properly on this unit.</li> <li>This unit supports all resolutions up to maximum of 720 × 480 (NTSC)/720 × 576 (PAL).</li> <li>You can select up to 8 types of audio and subtitles on this unit.</li> </ul> |

- If groups were created away from the root like “002 group” in the illustration below, the eighth one and onwards is displayed on the same vertical line in the menu screen.
- There may be differences in the display order on the menu screen and computer screen.
- This unit cannot play files recorded using packet write (→ page 38, Glossary).

## Naming folders and files

(Files are treated as contents and folders are treated as groups on this unit.)

At the time of recording, prefix folder and file names. This should be with numbers that have an equal number of digits, and should be done in the order you want to play them (this may not work at times).

### DVD-RAM

- Discs must conform to UDF 2.0.

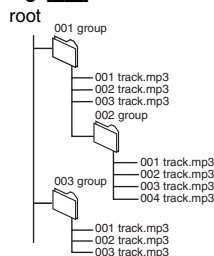
### DVD-R/RW

- Discs must conform to UDF bridge (UDF 1.02/ISO9660).
- This unit is not compatible with multi-session. Only the default session is played.

### CD-R/RW

- 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.

e.g. **MP3**



# Frequently asked questions

Reference pages are shown in parentheses.

|                                                                  |                                                                                                                                                                                                                               |
|------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>What kind of equipment is necessary to enjoy 5.1ch audio?</b> | Connect to an AV amplifier (that has 5.1ch audio output terminals) displaying the Dolby Digital/DTS logo. <b>(31)</b><br><b>DVD-A:</b> This unit plays DVD-Audio in 2 channels. You cannot play multi channel surround sound. |
| <b>Can I play a DVD-Video bought in another country?</b>         | You can play if the region number includes "2" or "ALL".<br>Check the disc jacket. <b>(Cover)</b>                                                                                                                             |
| <b>Can I use on an airplane or in a hospital?</b>                | Electromagnetic waves that are emitted from this unit may affect equipment on an airplane or in a hospital.<br>Please obey the rules and/or instructions indicated by the hospital or airline.                                |
| <b>Can I connect with a computer?</b>                            | You can enjoy use of the computer as a television monitor when connecting with the AV input terminal on a computer. However, you cannot operate this unit as peripheral equipment.                                            |

## Maintenance

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

- Use eyeglass cleaner to remove stubborn dirt from the LCD.
- Never use alcohol, paint thinner or benzine to clean this unit.

### Maintenance of the lens

- Remove dust carefully with an air blower for camera lenses (optional).
- Recommended product:  
Lens cleaner kit (SZZP1038C) (Available from Panasonic dealers.)
- You cannot use a CD type lens cleaner.
- Be careful not to touch the lens with your fingers.

### To clean discs

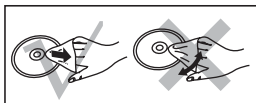
- Wipe with a damp cloth and then wipe dry.

### Disc handling precautions

- Do not attach labels or stickers to discs (This may cause disc warping, rendering it unusable).
- Do not write on the label side with a ball-point pen or other writing instrument.
- Do not use record cleaning sprays, benzine, thinner, static electricity prevention liquids or any other solvent.
- Do not use scratch-proof protectors or covers.
- Do not drop stack, or impact discs. Do not place objects on them.
- To protect discs from scratches and dirt, return them to their cases or cartridges when you are not using them.
- Do not use the following discs:
  - Discs with exposed adhesive from removed stickers or labels (rented discs etc).
  - Discs that are badly warped or cracked.
  - Irregularly shaped discs, such as heart shapes.

### Card handling precautions

- Do not detach the label and do not attach other labels.



# Troubleshooting guide

Before requesting service, make the following checks. If you are in doubt about some of the check points, or if the solutions indicated in the chart do not solve the problem, consult your dealer for instructions. (Reference pages are shown in parentheses.)

## The following do not indicate malfunction.

- Sound from the AC adaptor during recharging.
- The battery pack warming up when recharging or during use.
- The surface and area around the unit becoming warm when used for long periods.

## Power

|                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>No power.</b>                                                                          | <ul style="list-style-type: none"> <li>• Check connections to the AC adaptor or battery pack. (6)</li> <li>• <b>You cannot turn on the unit with the remote control if the unit is powered by the battery pack.</b></li> <li>• The unit has protection circuitry that is activated if it becomes too hot or too cold. The unit will not work if this occurs. Use the unit between 5 °C and 35 °C.</li> </ul> |
| <b>Unit turns off automatically.</b>                                                      | <ul style="list-style-type: none"> <li>• The unit turns off after it has been stopped for about 15 minutes (5 minutes when the unit is powered by the battery pack) to conserve power. Turn the unit on again.</li> </ul>                                                                                                                                                                                    |
| <b>Cannot charge or the [CHG] indicator fails to light.</b>                               | <ul style="list-style-type: none"> <li>• The battery pack can only be recharged when the unit is off.</li> <li>• The charging time increases when the temperature is too hot or too cold, and charging may not be possible under some circumstances.</li> <li>• Check connections to the AC adaptor or battery pack. (6)</li> </ul>                                                                          |
| <b>Play time dramatically reduced after recharging.</b>                                   | <ul style="list-style-type: none"> <li>• The battery pack has reached the end of its service life (It can be recharged about 300 times).</li> </ul>                                                                                                                                                                                                                                                          |
| <b>Difficulty inserting the plug or the plug is loose when connecting Car DC Adaptor.</b> | <ul style="list-style-type: none"> <li>• Set the plug switch to "N" (Narrow) or "W" (Wide) to adjust the plug size depending on the type of socket. (30)</li> </ul>                                                                                                                                                                                                                                          |

## No operation

|                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>No response when any buttons pressed.</b>            | <ul style="list-style-type: none"> <li>• This unit cannot play discs or cards other than the ones listed in these operating instructions. (8, 9)</li> <li>• The unit may not be operating properly due to lightning, static electricity or some other external factor. Turn the unit off and then back to ON. Alternatively, turn the unit off, disconnect the power source (AC or battery pack), and then reconnect it.</li> <li>• Condensation has formed: Wait 1 to 2 hours for it to evaporate.</li> </ul> |
| <b>No response when remote control buttons pressed.</b> | <ul style="list-style-type: none"> <li>• Check that the battery is installed correctly. (7)</li> <li>• The battery is depleted: Replace it with new one. (7)</li> <li>• Point the remote control at the remote control sensor and operate. (7)</li> </ul>                                                                                                                                                                                                                                                      |
| <b>You have forgotten your ratings password.</b>        | <ul style="list-style-type: none"> <li>• While stopped, press and hold [◀◀] and [▶▶] on the unit and then also press and hold [▶, ON] on the unit until "Initialised" disappears from the screen. Turn the unit off and on again. All settings will return to the default values.</li> </ul>                                                                                                                                                                                                                   |
| <b>No picture or sound.</b>                             | <ul style="list-style-type: none"> <li>• Check that the disc has something recorded on it.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>The contents of the SD card cannot be read.</b>      | <ul style="list-style-type: none"> <li>• The card format is not compatible with the unit. (The contents on the card may be damaged.) Format using a Panasonic SD multi camera, DVD recorder or similar device in FAT 12 system or FAT 16 system based on SD Memory Card specifications. (9)</li> <li>• The card contains a folder structure and/or file extensions that are not compatible with this unit.</li> </ul>                                                                                          |

## Specific operation impossible or incorrect

|                                                                 |                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>It takes time before play starts.</b>                        | <ul style="list-style-type: none"> <li>• Play may take time to begin when an MP3 track has still picture data. Even after the track starts, the correct play time will not be displayed; however, this is normal.</li> <li>• This is normal on DivX video.</li> </ul> |
| <b>The program and random play functions do not work. DVD-V</b> | <ul style="list-style-type: none"> <li>• These functions do not work with some DVD-Videos.</li> </ul>                                                                                                                                                                 |
| <b>Menu doesn't appear. VCD with playback control</b>           | <ul style="list-style-type: none"> <li>• Press [■, -OFF] twice and then press [▶, ON].</li> </ul>                                                                                                                                                                     |

## Specific operation impossible or incorrect

|                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The on-screen menu shows "2" as a soundtrack option when [AUDIO] is pressed, but the audio does not change. <b>DVD-A</b> | <ul style="list-style-type: none"> <li>• Even if a second soundtrack isn't recorded, two numbers will normally be shown.</li> </ul>                                                                                                                                                                                                                                                              |
| Play restarts from the beginning of the track when soundtrack is changed. <b>DVD-A</b>                                   | <ul style="list-style-type: none"> <li>• This is normal on DVD-Audio.</li> </ul>                                                                                                                                                                                                                                                                                                                 |
| Subtitle position is wrong.                                                                                              | <ul style="list-style-type: none"> <li>• Adjust the position. ("Subtitle Position" in Display Menu) <b>(25)</b></li> </ul>                                                                                                                                                                                                                                                                       |
| No subtitles.                                                                                                            | <ul style="list-style-type: none"> <li>• Display the subtitles. <b>(16)</b></li> </ul>                                                                                                                                                                                                                                                                                                           |
| In A-B repeat, point B is automatically set.                                                                             | <ul style="list-style-type: none"> <li>• The end of an item becomes point B when it is reached.</li> </ul>                                                                                                                                                                                                                                                                                       |
| Play doesn't start.                                                                                                      | <ul style="list-style-type: none"> <li>• This unit may not play WMA and MPEG4 that contains still picture data.</li> <li>• If playing DivX VOD content, refer to the homepage where you purchased the DivX VOD content. (Example: <a href="http://www.divx.com/vod">www.divx.com/vod</a>)</li> <li>• If a disc contains CD-DA and other formats, proper playback may not be possible.</li> </ul> |

## Picture incorrect

|                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| No picture on the LCD.                                                             | <ul style="list-style-type: none"> <li>• Select a monitor mode other than "OFF" (No picture). <b>(14, Selecting how to show 4:3 aspect pictures on the LCD)</b></li> </ul>                                                                                                                                                                                                                                                                                                                                   |
| The LCD is dark.<br>LCD pixels turn black or radiate different colors.             | <ul style="list-style-type: none"> <li>• Adjust the brightness. <b>(14)</b></li> <li>• The LCD is constructed with precision technology so 99.99 % of the pixels are active, but of the remaining of 0.01 %, there are pixels that may be black or emit light constantly. This phenomenon is not a malfunction.</li> </ul>                                                                                                                                                                                   |
| Picture doesn't appear on the television (or the size of the picture seems wrong). | <ul style="list-style-type: none"> <li>• Check connections. <b>(31)</b></li> <li>• Check that the television is on.</li> <li>• Check that the input mode on the television is correct.</li> <li>• Check the settings in "Video—TV Aspect". <b>(26)</b></li> <li>• Turn off the zooming feature on your television if you are using Zoom. <b>(25)</b></li> <li>• Ensure that the unit is connected directly to the television, and is not connected through a video cassette recorder. <b>(31)</b></li> </ul> |
| Picture distorted.                                                                 | <ul style="list-style-type: none"> <li>• Picture quality may worsen or some frames may be skipped when viewing <b>MPEG4</b> or <b>SD VIDEO</b>, but this is normal.</li> <li>• <b>DivX</b> Change "Source Select" in Picture Menu. <b>(24)</b></li> <li>• Set "Monitor Priority" to "Video Output" when connecting to a television. <b>(26)</b></li> </ul>                                                                                                                                                   |
| Picture stops.                                                                     | <ul style="list-style-type: none"> <li>• Picture may stop if the DivX files are greater than 2 GB.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                |
| Menu not displayed correctly.                                                      | <ul style="list-style-type: none"> <li>• Restore the zoom ratio to <math>\times 1.00</math>. <b>(25)</b></li> <li>• Set "Subtitle Position" in Display Menu to "0". <b>(25)</b></li> </ul>                                                                                                                                                                                                                                                                                                                   |
| Auto zoom function does not work well.                                             | <ul style="list-style-type: none"> <li>• Use the other preset aspect ratios or manual adjustment. <b>(25)</b></li> <li>• Zoom function may not work well, especially in dark scenes and may not work depending on the type of disc or card.</li> </ul>                                                                                                                                                                                                                                                       |

## Sound incorrect

|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| No sound from the unit's speakers.      | <ul style="list-style-type: none"> <li>• The speaker is off if the LCD is closed or headphones are connected.</li> <li>• Turn up the volume. <b>(10, 12)</b></li> </ul>                                                                                                                                                                                                                                                 |
| Sound distorted.                        | <ul style="list-style-type: none"> <li>• Select "Off" in "Advanced Surround". <b>(15)</b></li> <li>• Move unit away from mobile phones.</li> <li>• Noise may occur when playing WMA or MPEG4 files.</li> <li>• The disc may have restrictions on the method of audio output. With some multi-channel discs, audio will not be output properly. Refer to the disc's jacket for more information. <b>DVD-A</b></li> </ul> |
| Piercing noise comes from the speakers. | <ul style="list-style-type: none"> <li>• If you have connected a digital amplifier which does not include decoder, be sure to select "PCM" in "Dolby Digital", "DTS Digital Surround" or "MPEG" in "Audio" tab. <b>(27)</b></li> </ul>                                                                                                                                                                                  |

(Continued on the next page)

# Troubleshooting guide

## Sound incorrect

|                               |                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Effects do not work.          | <ul style="list-style-type: none"> <li>None of the audio effects work when the unit is connected through the digital optical cable and is outputting bitstream signals. <b>(31)</b></li> <li>Some audio effects do not work or have less effect with some discs.</li> <li>H.Bass, Advanced Surround, Multi Re-master and Sound Enhancement do not work if you have changed the play speed.</li> </ul> |
| No sound from other speakers. | <ul style="list-style-type: none"> <li>Check all connections and settings. <b>(31)</b></li> </ul>                                                                                                                                                                                                                                                                                                     |
| No sound                      | <ul style="list-style-type: none"> <li>There may be a pause in sound when you change the play speed.</li> <li><b>DivX</b> Audio may not be output due to how files were created. <b>(32)</b></li> </ul>                                                                                                                                                                                               |

## Recording

|                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cannot record to digital recording equipment. (Incorrect sound recorded.) | <ul style="list-style-type: none"> <li>You cannot record WMA/MP3.</li> <li>You cannot record DVDs that have protection preventing digital recording.</li> <li>You cannot record DVDs if the recording equipment cannot handle signals with a sampling frequency of 48 kHz.</li> <li>Make the following settings: <ul style="list-style-type: none"> <li>Advanced Surround: Off <b>(15)</b></li> <li>PCM Digital Output: Up to 48 kHz <b>(27)</b></li> <li>Dolby Digital/DTS Digital Surround/MPEG: PCM <b>(27)</b></li> </ul> </li> </ul> |
|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Displays

|                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| “  ”                                                                                                                                                                                                                                                                                | <ul style="list-style-type: none"> <li>The operation is prohibited by the unit or disc.</li> </ul>                                                                                                                                                                                                                                                                                         |
| No On-Screen display.                                                                                                                                                                                                                                                                                                                                               | <ul style="list-style-type: none"> <li>Select “On” for “On-Screen Messages” in “Display” tab. <b>(27)</b></li> </ul>                                                                                                                                                                                                                                                                       |
| “Check the disc.”<br>“U11”                                                                                                                                                                                                                                                                                                                                          | <ul style="list-style-type: none"> <li>Clean the disc. <b>(33)</b></li> <li>You inserted a disc that has not been finalized. <b>(8)</b></li> </ul>                                                                                                                                                                                                                                         |
| “  ERROR 01”                                                                                                                                                                                                                                                                       | <ul style="list-style-type: none"> <li>A problem has occurred with the battery pack. Consult your dealer.</li> </ul>                                                                                                                                                                                                                                                                       |
| “  ERROR 02”                                                                                                                                                                                                                                                                       | <ul style="list-style-type: none"> <li>The battery pack has been recharging for 20 hours but has failed to recharge for some reason. Recharge again.</li> </ul>                                                                                                                                                                                                                            |
| “  ERROR 03”                                                                                                                                                                                                                                                                       | <ul style="list-style-type: none"> <li>You are recharging in a location that is too hot or too cold. Recharge at normal temperature (+5 to +35 °C).</li> </ul>                                                                                                                                                                                                                             |
| “H   ”<br>  stands for a number. | <ul style="list-style-type: none"> <li>Trouble has occurred. The number appearing after “H” depends on the problem. Turn the unit off and on again. Alternatively, turn the unit off, disconnect the power source (AC or battery pack), reconnect the power and turn the unit on again. If the service numbers fail to clear, note the service numbers and consult your dealer.</li> </ul> |
| “Cannot display group xx, content xx”                                                                                                                                                                                                                                                                                                                               | <ul style="list-style-type: none"> <li>You are trying to play incompatible groups or content. <b>(32)</b></li> </ul>                                                                                                                                                                                                                                                                       |
| “Authorization Error”                                                                                                                                                                                                                                                                                                                                               | <ul style="list-style-type: none"> <li>You are trying to play the DivX VOD content that was purchased with a different registration code. You cannot play the content on this unit. <b>(21)</b></li> </ul>                                                                                                                                                                                 |
| “Rented Movie Expired”                                                                                                                                                                                                                                                                                                                                              | <ul style="list-style-type: none"> <li>The DivX VOD content has zero remaining plays. You cannot play it. <b>(21)</b></li> </ul>                                                                                                                                                                                                                                                           |

## [⓪] and [CHG] indicators

|                                      |                                                                                                                                                                                    |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The [⓪] indicator flashes rapidly.   | <ul style="list-style-type: none"> <li>The unit has malfunctioned. Consult your dealer.</li> </ul>                                                                                 |
| The [⓪] indicator flashes slowly.    | <ul style="list-style-type: none"> <li>The unit is on and the LCD is closed or the monitor mode is set to “OFF” (No picture). Turn the unit off when you have finished.</li> </ul> |
| The [CHG] indicator flashes rapidly. | <ul style="list-style-type: none"> <li>There is a problem with the battery pack. Turn the unit on and check the message on the LCD. <b>(above)</b></li> </ul>                      |
| The [CHG] indicator flashes slowly.  | <ul style="list-style-type: none"> <li>Battery pack charge is low. The unit will turn off automatically after a few minutes.</li> </ul>                                            |

# Specifications

## Operating temperature range:

+5 to +35 °C

## Operating humidity range:

5 to 85 % RH (no condensation)

## Discs played (8 cm or 12 cm):

- (1) DVD (DVD-Video, DivX<sup>®</sup> #6, 13, DVD-Audio)
- (2) DVD-RAM (DVD-VR, JPEG<sup>®</sup> #4, 6, 7, MP3<sup>®</sup> #2, 6, MPEG4<sup>®</sup> #5, 6, DivX<sup>®</sup> #6, 13)
- (3) DVD-R (DVD-Video, DVD-VR, JPEG<sup>®</sup> #4, 6, 7, MP3<sup>®</sup> #2, 6, MPEG4<sup>®</sup> #5, 6, DivX<sup>®</sup> #6, 13)
- (4) DVD-R DL (DVD-Video, DVD-VR)
- (5) DVD-RW (DVD-Video, DVD-VR, JPEG<sup>®</sup> #4, 6, 7, MP3<sup>®</sup> #2, 6, MPEG4<sup>®</sup> #5, 6, DivX<sup>®</sup> #6, 13)
- (6) +R/RW (Video)
- (7) +R DL (Video)
- (8) CD, CD-R/RW [CD-DA, Video-CD, SVCD<sup>®</sup> #1, MP3<sup>®</sup> #2, 6, WMA<sup>®</sup> #3, 6, JPEG<sup>®</sup> #4, 6, 7, MPEG4<sup>®</sup> #5, 6, DivX<sup>®</sup> #6, 13, HighMAT Level 2 (Audio and Image)]

## Signal system: PAL/PAL 60 (NTSC) selectable

## LCD screen: 9" $\alpha$ -Si, TFT wide-screen LCD

## Composite-video output/input:

- Output/input level: 1 Vp-p (75  $\Omega$ )  
 Output/input terminal:  $\phi$  3.5 mm mini jack  
 Number of terminals: 1 system  
 (output/input selectable)

## Audio output/input:

- Output/input level: 1.5 Vrms (1 kHz, 0 dB, 10 k $\Omega$ )  
 Output/input terminal:  $\phi$  3.5 mm stereo mini jack  
 Number of terminals: 1 system  
 (output/input selectable)

## Audio performance:

- (1) Frequency response:
  - DVD (linear audio):
    - 4 Hz to 22 kHz (48 kHz sampling)
    - 4 Hz to 44 kHz (96 kHz sampling)
  - DVD-Audio
    - 4 Hz to 88 kHz (192 kHz sampling)
  - CD audio: 4 Hz to 20 kHz
- (2) S/N ratio:
  - CD audio: 115 dB
- (3) Dynamic range:
  - DVD (linear audio): 98 dB
  - CD audio: 97 dB
- (4) Total harmonic distortion:
  - CD audio: 0.008 %

## Digital audio output:

- Optical digital output: Mini optical terminal  
 Number of terminals: 1 system  
 (also used for audio output/input)

## SD Playback<sup>®</sup> #8, 10, 11:

- Picture Playback: JPEG<sup>®</sup> #7, 9, 12  
 Video Playback: MPEG4<sup>®</sup> #5, 9

## Headphone output:

- Output:  $\phi$  3.5 mm stereo mini jack  
 Number of terminals: 2 systems

## Pickup:

- Wave length: 662 nm/785 nm (DVD/CD)  
 Laser power: CLASS 3B/CLASS 3B (DVD/CD)

## NORSK

## Pickup:

- Bølgelengde: 662 nm/785 nm  
 Laserstyrke: Ingen farlig stråling sendes ut  
 (med sikkerhets-beskyttelse)

## Power supply:

DC 12 V (DC IN terminal)/

DC 7.2 V (Exclusive battery terminal)

## Power consumption (using included AC adaptor):

13 W (Unit only: 10 W)

## Power consumption in Standby mode

(using included AC adaptor): **approx. 0.3 W**

## Power consumption in Recharge mode

(using included AC adaptor): 17 W

## AC adaptor:

Power source: AC 100 to 240 V, 50/60 Hz

Power consumption: 28 W

DC output: 12 V, 1.5 A

## Car DC Adaptor:

DC output: 12 V, 2 A

(Vehicle with 12 V battery only)

## Battery pack (lithium ion)

CGR-H712 (included):

Voltage: 7.2 V

Capacity: 4500 mAh

## Dimensions (W×D×H)

(excluding protrusions and battery):

235.4 mm × 179.2 mm × 46.0 mm

\*24.3 mm at lowest point

(D=185.0 mm including battery)

(H=51.5 mm including battery)

## Mass (including battery):

1103 g

(without battery):

872 g

## Note

Specifications are subject to change without notice.

Mass and dimensions are approximate.

• Useable capacity will be less (SD Memory Card).

- \*1 Conforming to IEC62107
- \*2 MPEG-1 Layer3, MPEG-2 Layer3
- \*3 Windows Media Audio Ver 9.0 L3.  
Not compatible with Multiple Bit Rate (MBR)
- \*4 Exif Ver 2.1 JPEG Baseline files  
Picture resolution: between 160×120 and 6144×4096 pixels (Sub sampling is 4:0:0, 4:2:0, 4:2:2 or 4:4:4)
- \*5 MPEG4 data recorded with the Panasonic SD multi cameras or DVD video recorders  
Conforming to SD VIDEO specifications (ASF standard)/MPEG4 (Simple Profile) video system / G.726 audio system.
- \*6 The total combined maximum number of recognizable audio, picture and movie contents and groups: 4000 audio, picture and movie contents and 400 groups.
- \*7 Extremely long and slender pictures may not be displayed.  
Useable memory capacities: 8 MB, 16 MB, 32 MB, 64 MB, 128 MB, 256 MB, 512 MB, 1 GB, 2 GB
- \*8 Total maximum number of recognizable picture and video files and folders  
Picture: 4000 files and 398 folders  
Video: 4000 files and 398 folders
- \*10 SD card formatted with equipment conforming to SD File System specifications Ver. 1.01 such as Panasonic SD multi cameras or DVD video recorders (Conforming to FAT 12 standard and FAT 16 standard)
- \*11 miniSD<sup>™</sup> card is supported. (miniSD<sup>™</sup> adaptor is required.)
- \*12 Conforming to SD Picture specifications  
Picture resolution: between 160×120 and 6144×4096 pixels (Sub sampling is 4:0:0, 4:2:0, 4:2:2 or 4:4:4)
- \*13 Plays all versions of DivX<sup>®</sup> video (including DivX<sup>®</sup>6) with standard playback of DivX<sup>®</sup> media files. Certified to the DivX Home Theater Profile. GMC (Global Motion Compensation) is not supported.

# Glossary

## DivX

DivX is a popular media technology created by DivX, Inc. DivX media files contain highly compressed video with high visual quality that maintains a relatively small file size.

## Down-mixing

This is a process of remixing the multi-channel audio (surround sound) on some discs into two channels. When you want to listen to the audio on a DVD with a 5.1 channel digital surround track through your television speakers, the down-mixed audio will be output.

Some DVD-Audio prevent down-mixing of all or part of their contents. When playing such discs, or such parts of the disc, audio will not be output properly.

## SUOMI

### VAROITUS!

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

### VAROITUS:

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

### VAROITUS!

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

TÄMÄ LAITE ON TARKOITETTU KÄYTETTÄVÄKSI LEUDOSSA ILMASTOSSA.

Laite tulee asettaa lähelle verkkopistorasiaa ja pistokkeen täytyy olla sellaisessa asennossa, että siihen on helppo tarttua ongelman sattuessa.

## MPEG4

A compression system for use on mobile devices or a network, that allows highly efficient recording at a low bit rate.

## Packet Writing

"Packet Writing" is one method of data recording used. Very small amounts of data referred to as "Packets" are divided into very small units and written as "Packets". Music CDs cannot be created with this method.

## Sampling frequency

Sampling is the process of converting the heights of sound wave (analog signal) samples taken at set periods into digits (digital encoding). Sampling frequency is the number of samples taken per second, so larger numbers mean more faithful reproduction of the original sound.

## NORSK

### ADVARSEL!

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

### ADVARSEL:

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

### ADVARSEL!

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

DETTE APPARATET ER BEREGNET TIL BRUK UNDER MODERATE KLIMAFORHOLD.

Utstyret bør plasseres i nærheten av AC-stikkkontakten, og støpslet må være lett tilgjengelig hvis det skulle oppstå problemer.

**-If you see this symbol-**

**Information on Disposal for Users of Waste Electrical & Electronic Equipment (private households)**



This symbol on the products and/or accompanying documents means that used electrical and electronic products should not be mixed with general household waste.

For proper treatment, recovery and recycling, please take these products to designated collection points, where they will be accepted on a free of charge basis. Alternatively, in some countries you may be able to return your products to your local retailer upon the purchase of an equivalent new product.

Disposing of this product correctly will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling. Please contact your local authority for further details of your nearest designated collection point.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

**For business users in the European Union**

If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

**Information on Disposal in other Countries outside the European Union**

This symbol is only valid in the European Union.

If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.

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| Multi Re-master .....           | 18                 |                                |                    |

**CAUTION** -VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.

**WARNING** -SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRÄKTA EJ STRÅLEN.

**ADVARSEL** -SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING, NÄR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.

**ADVARSEL** -SYNLIG OG USYNLIG LASERSTRÅLING NÄR DEKSEL ÄPNES OG SIKKERHEDSLÄS BRYTES. UNDGÅ EKSPONERING FOR STRÅLEN.

**VARO!** -AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYVÄÄ JA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.

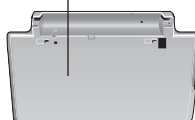
**VORSICHT** -SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET UND SICHERHEITSVERRIEGELUNG ÜBERBRÜCKT. NICHT DEM STRAHL AUSSETZEN.

**ATTENTION** -RAYONNEMENT LASER VISIBLE ET INVISIBLE DANGEREUX EN CAS D'OUVERTURE ET LORSQUE LA SÉCURITÉ EST NEUTRALISÉE. EXPOSITION DANGEREUSE AU FAISCEAU.

(Bottom of product)  
(Produktets underside)  
(Tuotteen pohjassa)

CLASS 1  
LASER PRODUCT

LUOKAN 1 LASERLAITE  
KLASS 1 LASER APPARAT



(Bottom of product)