



# Operat DVD/CD

Model No. **D** 

### Dear cus

Thank you for pure product, please reference.



### Region number

The player plays D

### Region

The United King Continental Eur the Middle East South Africa

Asia

Australia and N.

EB



(

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### Caution for AC Mains Lead

### (For United Kingdom and Middle East except United Arab Emirates)

("EB" or "GC" 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 FITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E. BY THE EARTH SYMBOL \(\preceq\) OR COLOURED GREEN OR GREEN/YELLOW.

THIS PLUG IS NOT WATERPROOF—KEEP DRY.

### Before use

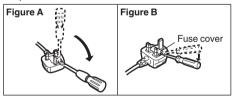
Remove the connector cover.

### How to replace the fuse

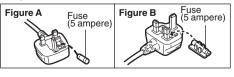
The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.

Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.



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



### **Accessories**



Use numbers when asking for replacement parts.

(Product numbers correct as of March 2005. These may be subject to change.)



Remote control

AC mains lead

The United Kingdom (RJA0053-3X)

Continental Europe, United Arab Emirates, South Africa and Asia

(RJA0019-2X) (K2CJ2DA00008)

□ 2 AC mains leads

Australia and N.Z.

The Middle East except United Arab Emirates

(RJA0053-3X) (RJA0019-2X)

Saudi Arabia

Audio/video cable (K2KA6BA00004)

Remote control batteries

### Note

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

### 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

### 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
- 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.

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### Discs that can be played

Operations in these instructions are described mainly with formats. Icons such as RAM show the formats.

Operations in these instruction	ons are described mainly with formats. Icons such as <b>FAM</b> show the formats.
RAM RAM4.7	DVD-RAM RAM JPEG MPEG4 DivX  RAM Recorded with devices using Version 1.1 of the Video Recording Format (a unified video recording standard), such as DVD video recorders, DVD video cameras, personal computers, etc.  JPEG Recorded with Panasonic SD multi cameras or DVD-Video recorders using the DCF (Design rule for Camera File system) Standard Version 1.0.  MPEG4 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].  DivX Created using DivX ver.3.11, 4.x, 5.x [DivX video system/MP3, Dolby Digital or MPEG audio system].
AUDIO	DVD-Audio DVD-A DVD-V  ■ DVD-V Some DVD-Audio discs contain DVD-Video content. To play DVD-Video content, select "Play as DVD-Video" (→ page 15, Other Menu).
DVD DVD	DVD-Video DVD-V —
	DVD-R (DVD-Video)/DVD-RW (DVD-Video) DVD-V DivX  ■ DVD-V Discs recorded and finalized* on DVD video recorders or DVD video cameras  ■ DivX Created using DivX ver.3.11, 4.x, 5.x [DivX video system/MP3, Dolby Digital or MPEG audio system]. Finalize* the disc after recording.
R R W R4.7	DVD-RW (DVD-VR) DVD-RW (VR) Discs recorded and finalized* on DVD video recorders or DVD video cameras using Version 1.1 of the Video Recording Format (a unified video recording standard).
_	+R (Video)/+RW (Video) DVD-V Discs recorded and finalized* on DVD video recorders or DVD video cameras
OGITAL VIDEO  COMPACT  OGITAL VIDEO  SUPER VIDEO	Video CD VCD Including SVCD (Conforming to IEC62107)
COMPACT COMPAC	CD CD WMA MP3 JPEG MPEG4 DivX VCD  This unit can play CD-R/RW recorded with the above formats. Close the sessions or finalize™ the disc after recording.  WMA MP3 JPEG This unit also plays HighMAT discs.  WMA This unit is not compatible with Multiple Bit Rate (MBR: a file that contains the same content encoded at several different bit rates).  DivX Created using DivX ver.3.11, 4.x, 5.x [DivX video system/MP3, Dolby Digital or MPEG audio system].  This unit is compatible with HDCD (→ page 19, Glossary), but does not support the Peak Extend function (a function which expands the dynamic range of high level signals). (During HDCD play, "HDCD" lights on the unit's display.)
★ A proceed that allowe play if	on compatible equipment

### ■ Discs that cannot be played

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

### Regarding DVD-Audio

Some multi-channel DVD-Audio will prevent down-mixing ( page 19, Glossary) of all or part of their contents if this is the manufacturer's intention. When playing such discs, or such parts of the disc, unless the number of connected speakers is the same as the disc's channel specification, audio will not be output properly (e.g. part of the audio is missing, multi-channel audio cannot be selected and audio is played in two channels). Refer to the disc's jacket for more information.

### ■ 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 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.

### ■ Clean this unit with a soft, dry cloth

- Never use alcohol, paint thinner or benzine to clean this unit.
- Before using chemically treated cloth, read the instructions that came with the cloth carefully.
   Cleaning of the lens is generally not necessary
- although this depends on the operating environment.
- Do not use commercially available lens cleaners as they may cause malfunction.

### ■ Clean discs

Wipe with a damp cloth and then wipe dry.



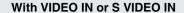


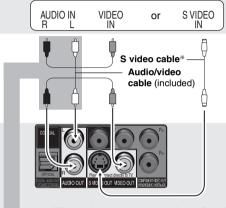
A process that allows play on compatible equipment.

<sup>•</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 12, Tips for making data discs).

### STEP 1 Connection to a television

- Do not place the unit on amplifiers or equipment that may become hot. The heat can damage the unit.
- Do not connect through the video cassette recorder. Due to copy guard protection, the picture may not display properly.
- Turn off all equipment before connection and read the appropriate operating instructions.
- · Connect the terminals of the same colour.



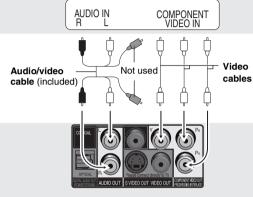


\*When using this connection, the audio cable (red and white plugs) should also be connected.

You can connect the audio cable to the 2channel audio input terminals of an analog amplifier or system component to enjoy stereo sound.

### **Television**

### With COMPONENT VIDEO IN



### To enjoy progressive video

Connect to a progressive output compatible television.

- The United Kingdom and Continental Europe Select "Video/YPbPr" for the component terminals in QUICK SETUP (→ page 5).
- ② Set "Video Output Mode" to "xxxp", then follow the instructions on the menu screen (→ page 14, Picture Menu).

### The United Kingdom and Continental Europe

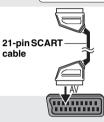
Panasonic televisions with 625 (576)/50i  $\cdot$  50p, 525 (480)/60i  $\cdot$  60p input terminals are progressive compatible.

Back of the unit

### The United Kingdom and Continental Europe

### With SCART (AV) IN

SCART (AV) IN



 If the television is compatible with S-video, select "S-Video/YPbPr", or compatible with RGB, select "RGB/No Output" for the AV terminals in QUICK SETUP (→ page 5).

### Connect the AC mains lead last

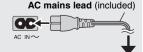
FOR THE UNITED KINGDOM AND THE MIDDLE EAST ONLY (EXCEPT UNITED ARAB EMIRATES) READ THE CAUTION FOR AC MAINS LEAD ON PAGE 2 BEFORE CONNECTION.

### The Middle East except United Arab Emirates

Use the AC mains lead that matches the socket for the area you live in.

### Saudi Arabia

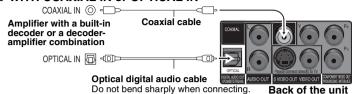




To household mains socket

### **Enjoying multi-channel surround sound**

### ■ WITH COAXIAL IN or OPTICAL IN

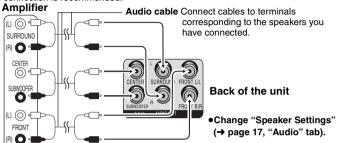


- You cannot use DTS Digital Surround decoders not suited to DVD.
- Even if using this connection, output will be only 2 channels when playing DVD-Audio.
   To enjoy multi-channel surround sound, connect with 5.1 ch AUDIO OUT terminals
   (→ right).

Change "PCM Digital Output", "Dolby Digital", "DTS Digital Surround" and "MPEG Except Asia" (→ page 17, "Audio" tab).

### ■ WITH AUDIO IN 5.1ch

To obtain maximum performance of DVD-Audio multi-channel PCM sound, this connection is recommended.



### STEP 2 The remote control

### ■ Batteries



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

### Do not:

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

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

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

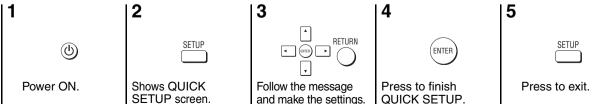
### ■ Use

Aim at the remote control sensor (→ page 6), avoiding obstacles, at a maximum range of 7 m directly in front of the unit.

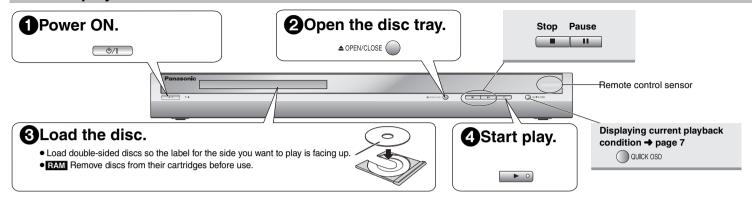
### **STEP 3 QUICK SETUP**

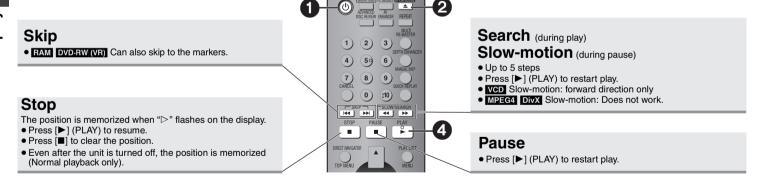


Turn on the television and select the appropriate video input on the television.



### Basic play





### Standby/on switch (U/I)

Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.

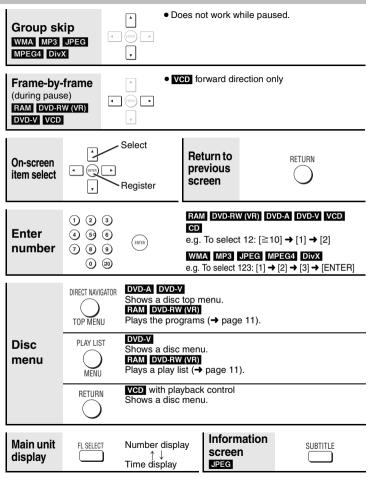
### Standby/on indicator (也)

When the unit is connected to the AC mains supply, this indicator lights up in standby

mode and goes out when the unit is turned on. Download from Www.Somanuals.com.

- To play JPEG, MPEG4 or DivX video contents on DVD-RAM that contain both RAM and another format (e.g. JPEG), select "Play as Data Disc" (→ Page 15, Other Menu).
- "D.MIX" on the display indicates that a soundtrack with three or more channels can be down-mixed to two channels (> page 19, Glossary).
- Discs continue to rotate while menus are displayed. Press [■] when you finish to preserve the unit's motor and your television screen.
- Total title number may not be displayed properly on +R/+RW.

Aultwan are experiencing problems refer to troubleshooting guide (→ page 20, 21).



### **Convenient functions**

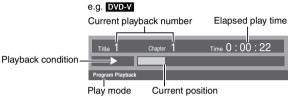


Displaying current playback condition (Quick On Screen Display)

### Press [QUICK OSD].



### ■ Basics

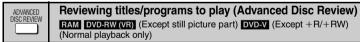


### ■ Details

### e.g. DVD-V



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



- 1 Press [ADVANCED DISC REVIEW].
- 2 Press [▶] (PLAY) when you find a title/program to play.



- You can also review each 10 minutes. Select "Interval Mode" (→ page 16, "Advanced Disc Review" in "Disc" tab).
- This may not work depending on the play position.
- RAM DVD-RW (VR) This does not work when playing a play list (→ page 11).

### Convenient functions



### Recalling recommended audio/video setting (AV Enhancer)

By pressing just one button the disc type is automatically determined and the best audio and video settings are configured.

Press [AV ENHANCER] to select "Auto". "User1". "User2" or "User3".



Off. Cancelled

The best audio and video settings are configured. Auto: User1\*\* Suitable for video (DVD-V) (factory preset).

Suitable for music (factory preset). User2\*

User3\*: Suitable for video (RAM DVD-RW (VR)) (factory preset).

\*You can change the settings for User1-3 to your preference (→ page 15, "AV

Enhancer" in Other Menu).

When AV Enhancer (Auto) is on, you cannot change the individual settings indicated below.

### Audio settings:

Multi Re-master (→ right), Advanced Surround, Dialogue Enhancer, Sound Enhancement (→ page 14)

Video settings:

Picture Mode (→ page 14), Depth Enhancer (→ below).

• This may not work depending on the disc's recording.



### Reducing the rough noise in the background (Depth Enhancer)

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

Press [DEPTH ENHANCER] to select from "0" through "+4".



• When you change this setting, "Picture Mode" (→ page 14, Picture Menu) is automatically changed to "User".



Starting play from a selected group DVD-A WMA MP3 JPEG MPEG4 DivX

A folder on WMA/MP3, JPEG, MPEG4 and DivX video discs is treated as a "Group".

- While stopped, press [GROUP].
- 2 Press [▲ ▼] or the numbered buttons to select a group and press [ENTER].
- DVD-A To play all groups (→ page 12, All group play)





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

RAM DVD-RW (VR) DVD-V (Discs recorded with 48 kHz only) DVD-A (Discs recorded with 44.1 kHz and 48 kHz only) VCD CD

WMA MP3 (Disc recording is other than 8 kHz, 16 kHz, 32 kHz)

### RAM DVD-RW (VR) DVD-A DVD-V VCD CD

- During multi-channel output of these discs, this feature reproduces the frequencies lost during recording to give you a sound closer to the original.
- During 2 ch output of these discs, 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. (→ page 19. "Sampling frequency" in Glossary)

### WMA MP3

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

### Press [MULTI RE-MASTER] to select "1", "2" or "3".



Setting	DVD-A DVD-V CD (LPCM/PPCM) Type of music	Other discs Effect level
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 may not work when connected with DIGITAL AUDIO OUT terminals.
- This may not work depending on the disc's recording.
- This does not work when Advanced Surround (→ page 14) is on.



### Skipping 30 seconds forward RAM DVD:RW(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.



Repeat play (Only when the elapsed play time can be displayed JPEG: Works with all JPEG content although the elapsed play time cannot be displayed)

Press [REPEAT] to select an item to be repeated.



### Changing play speed RAM DVD-RW (VR) DVD-V

During play, press [PLAY SPEED] to select "Fast". "Normal" or "Slow".

### Fine adjustments

While the menu is displayed Press [◀ ▶] to increase or decrease the playing speed from  $\times 0.6$  to  $\times 1.4$  in 0.1 units.

Functions Play Speed < x1.4 Normal

√Fast Slow

- Press [▶] (PLAY) to return to the normal play.
- After you change the speed
- Multi Re-master (→ page 8). Advanced Surround (→ page 14) and Sound Enhancement (→ page 14) do not work.
- Audio output switches to 2 ch (Digital output switches to PCM).
- 96 kHz sampling frequency is converted to 48 kHz.
- This may not work depending on the disc's recording.

Zoom RAM DVD-RW (VR) DVD-V VCD MPEG4 DivX

This feature expands a letterbox picture to fit the screen. Press [ZOOM] to select the preset aspect ratio or "Auto". (Just Fit Zoom)

### **Functions** Just Fit Zoom ×1.00 ▶

### RAM DVD-RW (VR) DVD-V VCD

Auto → 4:3 Standard → European Vista → 16:9 Standard

Cinemascope2 ← Cinemascope1 ← American Vista

### MPEG4 DivX Standard → Original

\_\_\_ Full ←

### Fine adjustments (Manual Zoom)

Press [◀ ▶] while the menu is displayed. (Press and hold to alter faster.)

-from ×1.00 to ×1.60 (in 0.01 units), from ×1.60 to ×2.00 (in 0.02 units)

### MPEG4 DivX only

- -from  $\times 2.00$  to  $\times 4.00$  (in 0.05 units)
- •It may not be possible to zoom up to ×4.00 depending upon the connected television and its settings.

ANGLE/PAGE

Angle select DVD-V (with multiple angles) Still picture rotation IDEG /advance DVDA

Press [ANGLE/PAGE] to select the angle or rotate/ advance the still picture.

e.a. DVD-V



Changing soundtracks

DVD-A DVD-V DivX (with multiple soundtracks) RAM DVD-RW (VR) VCD

Press [AUDIO] to select the soundtrack.



RAM DVD-RW (VR) VCD

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

AUDIO

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/DID Digital/DTS/MP3/MPEG: Signal type kHz (Sampling frequency)/bit/ch (Number of channels)

Example: 3/2 .1ch

L.1: Low frequency effect

(not displayed if there is no signal)

- 0: No surround 1: Mono surround
- 2: Stereo surround (left/right)
- 1: Center
- 2: Front left+Front right 3: Front left+Front right+Center
- DivX It may take some time for play to start if you change the audio on a DivX video disc.



Changing subtitles DVD-V DivX (with subtitles)

VCD (SVCD with subtitles only) RAM DVD-RW (VR) (On/Off only with discs that contain subtitle on/off information)

### DVD-V VCD DivX

### Press [SUBTITLE] to select the subtitle language.

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



### To clear/display the subtitles

Press [◀ ▶] to select "On" or "Off".

### RAM DVD-RW (VR)

Press [SUBTITLE] to select "On" or "Off".

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



**Quick replay** (Only when the elapsed play time can be displayed) (Except MPEG4 DivX , +R/+RW)

Press [QUICK REPLAY] to skip back a few seconds.

• This may not work depending on the disc's recording.



### **Using navigation menus**



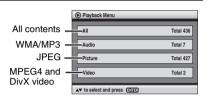
### Playing data discs WMA MP3 JPEG MPEG4 DivX

Select "Play as Data Disc" (\*) page 15, Other Menu) to play JPEG, MPEG4 or DivX video contents on DVD-RAM that contain both RAM and another format (e.g. JPEG) or to play HighMAT discs without using the HighMAT function.

### Playing items in order (Playback Menu)

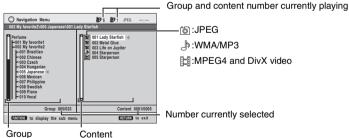
While the menu is displayed Press [▲ ▼] to select "All", "Audio", "Picture" or "Video" and press [ENTER].

 To display/exit the screen, press [TOP MENU].



### Playing from the selected item (Navigation Menu)

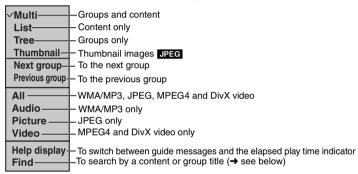
- 1 Press [MENU].
- 2 Press [▲ ▼ ◀ ▶] to select the group and press [ENTER].
- To play content in the group in order Press [ENTER].
  - To start play from the selected content
     Press [▲ ▼] to select and press [ENTER].



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

### ■ Using the submenu

- 1 Press [MENU].
- 2 Press [FUNCTIONS].
- 3 Press [▲ ▼] to select an item and press [ENTER].



### ■ Searching by a content or group title

- 1 Press [MENU].
  - Press [◀►] to highlight a group title to search a group, or a content title to search its content.
- 2 Press [FUNCTIONS].
- 3 Press [▲ ▼] to select "Find" and press [ENTER].



- 4 Press [▲ ▼] to select a character and press [ENTER].
  - Repeat to enter another character.
  - Lower case is also searched.
  - Press [◄◄ ▶▶] to skip between A, E, I, O and U.
  - Press [◄] to erase a character.
  - ullet Erase the asterisk (st) to search for the titles starting with that character.
- 5 Press [▶] to select "Find" and press [ENTER].
- The search result screen appears.
- 6 Press [▲ ▼] to select the content or group and press [ENTER].



### Playing CD CD

Titles appear with CD text playback.

- 1 Press [MENU].
- 2 Press [▲ ▼] to select the track and press [ENTER].
- Press [ANGLE/PAGE] to skip page by page.
- To exit the screen, press [MENU].

e.g. CD text



Press [FUNCTIONS] to switch between guide messages and the elapsed play time indicator.



### Playing HighMAT™ discs WMA MP3 JPEG

While the menu is displayed

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



### Menu:

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



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

### Selecting from the list

- 1 During play, press [MENU].
- 2 Press [◄] then [▲ ▼] to switch among "Playlist", "Group" and "Content" lists.
- 3 Press [▶] then [▲ ▼] to select an item and press [ENTER].
- Press [ANGLE/PAGE] to skip page by page.
- To exit the screen, press [MENU].



## DIRECT NAVIGATOR PLAY LIST

### Playing RAM/DVD-RW (DVD-VR) discs

- Titles appear only if you have entered them.
- You cannot edit play lists and titles.

### Playing the programs

- 1 Press [DIRECT NAVIGATOR].
- 2 Press [▲ ▼] or the numbered buttons to select the program.
  - Press [ANGLE/PAGE] to skip page by page.
  - ●To select a 2-digit number
  - e.g. 23: [≧10] → [2] → [3]
  - Press [►] to show the contents of the program.
- 3 Press [ENTER].



### Playing a play list (Only when the disc contains a play list)

- 1 Press [PLAY LIST].
- 2 Press [▲ ▼] or the numbered buttons to select the play list.
  - Press [ANGLE/PAGE] to skip page by page.
  - •To select a 2-digit number e.g. 23: [≥10] → [2] → [3]
- 3 Press [ENTER].



### Playing a scene

- 1 Do steps 1–2 (→ above, Playing a play list).
- 2 Press [▶].
- 3 Press [▲ ▼] to select "Scene List" and press [ENTER].
- Select "Contents" to show the contents of the program.
- 4 Press [▲▼◀►] to select a scene and press [ENTER].

# ROT8117

### Using navigation menus

### ■ Tips for making data discs

- If groups were created away from the root like "002 group" in the illustration below, the eighth one 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.

### DVD-RAM

• Discs must conform to UDF 2.0.

### 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.

### DVD-R/RW

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

## 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

At the time of recording, prefix folder and file names. I his 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).

WMA (Extension: ".WMA" or ".wma")

- Compatible compression rate: between 48 kbps and 320 kbps
- You cannot play WMA files that are copy protected.
- This unit is not compatible with Multiple Bit Rate (MBR: a file that contains the same content encoded at several different bit rates).

MP3 (Extension: ".MP3" or ".mp3")

- Compatible compression rate: between 32 kbps and 320 kbps
- This unit is not compatible with ID3 tags.

JPEG (Extension: "JPG", ".jpg", ".JPEG" or ".jpeg")

- JPEG files taken on a digital camera that conforms to DCF Standard Version 1.0 are displayed.

   The state of the s
- Files that have been altered, edited or saved with computer picture editing software may not be displayed.

   NOTION IDEA and attack out formats attacking to the control of the co
- 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.

MPEG4 (Extension: ".ASF" or ".asf")

- 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 video recorders with this unit.
- The recording date may differ from that of the actual date.

DivX (Extension: ".DIVX", ".divx", ".AVI" or ".avi")

- You can play DivX data created using ver.3.11, 4.x, 5.x [DivX video system/MP3, Dolby Digital or MPEG audio system].
- GMC (Global Motion Compensation) is not supported.
- DivX files greater than 2GB or have no index may not play properly on this unit.
- This unit supports all resolutions up to maximum of 720 ×480 (NTSC)/720 ×576 (PAL).
- You can select up to 8 types of audio and subtitles and this will www.Somanuals.com. All Manuals Search And Download.

e.a. MP3

001 group

003 group

-001 track.mp3

-002 track.mp3

-003 track.mp3

-001 track.mp3

-002 track.mp3

001 track.mp3

-002 track.mp3

-003 track.mp3

-004 track.mp3

002 group

### Changing the play sequences

PLAY MODE
All group/Program/Random play
DVD-A DVD-V VCD CD WMA MP3 JPEG MPEG4 DivX

While stopped, press [PLAY MODE].

All group ( $\boxed{\text{DVD-A}}$ )  $\rightarrow$  Program  $\rightarrow$  Random  $^{\uparrow}$  Off (Normal play) $\leftarrow$ 

- Disable HighMAT disc play to use random and program play. Select "Play as Data Disc" in Other Menu (→ page 15).
- All group play DVD-A Press [▶] (PLAY).



- Program play (up to 32 items)
- Press the numbered buttons to select the items (→ page 7, Enter number).
   Repeat this step to program other items.
- 2 Press [►] (PLAY).

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

# Choose a title and chapter. No. Title Chapter Time Play Glear Clear all

e.q. DVD-V

### Changing the program

Press [▲ ▼] to select an item.

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

### Clearing the whole program

Select "Clear all" and press [ENTER]. The whole program is also cleared when the unit is turned off or the disc tray is opened.

### ■ Random play

- 1 DVD-A DVD-V WMA MP3 JPEG MPEG4 DivX
  Press the numbered buttons to select a group
  or a title (→ page 7, Enter number).
- 2 Press [▶] (PLAY).

# e.g. DVD-V Random Playback Choose a title. Title 1 AV 0 - 5 to select PLAY to start

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

Press [PLAY MODE] several times while stopped.

### **Using On-Screen Menus**

Items shown differ depending on the type of software.

Main men	us			
Program, Grou Chapter, Track Playlist, Conte	· ·			
To skip incrementally or decrementally* (Time Slip for play only)  1. Press [ENTER] twice to show Time Slip indicator.  2. Press [▲ ▼] to select the time and press [ENTER].  • Press and hold [▲ ▼] to alter faster.  To start from a specific time* (Time Search)  To change remaining/elapsed time display				
Video	To display pixel number  DivX fps (frame per second) is also displayed.			
Audio	(→ page 9, Changing soundtracks)  To display the current bitrate or sampling frequency			
Still Picture	To switch still picture			
Thumbnail	To show thumbnail images			
Subtitle	(→ page 9, Changing subtitles)			
Marker (VR)	To recall a marker recorded on DVD-Video recorders			
Angle	(→ page 9, Angle select)			
Rotate Picture	(→ page 9, Still picture rotation)			
Slideshow	To turn on/off slideshow To change the slideshow timing (0-30 sec)			
Other Settings	(→ right)			
Event   D/+ DV	M			

Other Sett	Other Settings			
Play Speed	(→ page 9, Changing play speed)			
Play Menu Only when the elapsed play time can be displayed, JPEG The Repeat and Marker inctions can be used.)				
Repeat	(→ page 8, Repeat play)			
A-B Repeat Except MPEG4 DivX	To repeat a specified section  Press [ENTER] at the starting and ending points.  Press [ENTER] again to cancel.  RAM DVD-RW (VR) (still picture part): Does not work.			
Marker Except RAM DVD-RW (VR)	To mark up to 5 positions to play again  Press [ENTER] (The unit is now ready to accept markers.)  To mark a position: [ENTER] (at the desired point)  To mark another position: [◀ ▶] → [ENTER]  To recall a marker: [◀ ▶] → [ENTER]  To erase a marker: [◀ ▶] → [CANCEL]  • This feature doesn't work during program and random play.  • Markers you add clear when you open the disc tray or switch the unit to standby			

(→ page 7, Reviewing titles/programs to play)

Advanced

**Disc Review** 

### **Using On-Screen Menus**

	Normal: Normal images			
Picture Mode	<b>Brightness:</b> Brightens the picture (0 to +15). <b>Sharpness:</b> Adjusts the sharpness of the edges of the horizontal lines. (-7 to +7)	Advanced Surround	RAM DVD-RW (VR) DVD-V VCD (2 or more channels) Enjoy a surround-like effect when using 2 front speakers (SP) or headphones (HP) (connect the unit to equipment that has a headphone jack). SP (Speaker) 1 Natural SP 2 Enhanced HP (Headphone) 1 Natural HP 2 Enhanced Off  •When using discs recorded with surround sound, sound seems to come from speakers on either side of you.  •When using headphones with the connected equipment, select "HP 1" or "HP 2".  •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.	
	Colour: Adjust the shade of the picture's colour (-7 to +7).  Gamma: Adjusts the brightness of dark parts (0 to +5).  Depth Enhancer (→ page 8, Reducing the rough noise in the background)  MPEG DNR: Smoothes block noise and reduces the smudging that appears around contrasting sections of the picture (0 to +3).	Dialogue Enhancer	Do not use in combination with surround effects on other equipment.  To make the dialogue in movies easier to hear  DVDAY (Dolby Digital, DTS, MPEG Except Asia, 3-channel or over, with the dialogue recorded in the center channel)  DIVX (Dolby Digital, 3-channel or over, with the dialogue recorded in the center channel)  On Office (Dolby Digital)  On Office (Dolby Digital)	
	*480p/525p/576p/625p (progressive) *480i/525i/576i/625i (interlace)	Multi Re-master	On ←→ Off  (→ page 8, Reproducing more natural audio)	
Video Outpu Mode	When you select "xxx*p" (progressive) and a confirmation screen appears, select "Yes" only if connecting to a progressive output compatible television.  *The numbers displayed depend on the geographical location and disc being played. One of the above numbers is displayed.	Sound Enhancement	To enjoy clear sound by adding higher frequency signals not recorded on the disc.  Except MPEG4 DivX On ←→ Off  • This does not work when Multi Re-master (→ page 8) or	
	If you have chosen "xxx*p" (progressive) (→ above), select the		Advanced Surround (→ above) is on.  This may not work depending on the disc's recording.	
	method of conversion for progressive output to suit the type of material.  When playing PAL discs  Auto: Detects 25 frame-per-second film content and	Digital Filter	When audio is output from 2 ch or 5.1ch AUDIO OUT terminals (→ page 4, 5)  Normal: A clear timbre.  Slow: Gives music atmosphere, with softness and a feeling of depth.	
Transfer Mode	appropriately converts it.  Video: Select when using Auto, and the video content is distorted.	Attenuator	When audio is output from 2 ch or 5.1ch AUDIO OUT terminals (→ page 4, 5) Switch on if sound is distorted.  On ←→→ Off	
Wode	When playing NTSC discs <b>Auto1</b> (normal): Detects 24 frame-per-second film content and	■ Display Me	enu	
	appropriately converts it. <b>Auto2</b> : Compatible with 30 frame-per-second film content in	Information	On ←→ Off	
	addition to 24 frame-per-second film content.	Subtitle Positi	· · · · · ·	
	Video: Select when using Auto1 and Auto2, and the video content is distorted.	Subtitle Brightness Auto, 0 to −7		
Source Selec	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.  Auto I (Interlace) P (Progressive)	4:3 Aspect	To select how to show images made for 4:3 aspect screens on a 16:9 aspect television Normal: Laterally stretches images. Auto: The standard setting is "Shrink". However this automatically changes to "Zoom" with a letterbox picture. Shrink: Images appear in the center of the screen. Zoom: Expands to 4:3 aspect ratio.	

Just Fit Zoom	(→ page 9, Zoom)
Manual Zoom	(→ page 9, Zoom)
Bit Rate Display	RAM DVD-RW (VR) DVD-V VCD MPEG4 DivX On $\longleftrightarrow$ Off
GUI See-through	Off, On, Auto
GUI Brightness	-3 to +3
Quick OSD	(→ page 7, Displaying current playback condition)
■ Other Menu	

### To preset the settings You can preset your favorite video/audio effects onto "User1". "User2" and "User3". Preparation Adjust the settings indicated below to your preference. (When "Auto" is selected, this is not available.) Audio settinas: Multi Re-master (→ page 8. Reproducing more natural audio) Advanced Surround/Dialogue Enhancer/ Sound Enhancement (→ page 14. Audio Menu) Video settings: Depth Enhancer (→ page 8. Reducing the rough noise in the **AV Enhancer** background) Picture Mode (→ page 14. Picture Menu) 1. Select "Save Settings" and press [ENTER]. 2. Press [▲ ▼] to select the setting location (User1, User2 or User3) and press [ENTER]. 3. Follow the instructions on the menu screen and press [ENTER] last. To recall the settings (→ page 8, Recalling recommended audio/video setting) To confirm the settings 1. Press [▲ ▼] to select "User1", "User2" or "User3" and

- press [ENTÉR].
- 2. Select "Save Settings" and press [ENTER] twice. To exit the screen, select "No" and press [ENTER].

Setup	(→ page 16, Changing the player settings)
Play as DVD-Video	Select "Play as DVD-Video" to play DVD-Video contents on
Or Dlay as DVD Audia	DVD-Audio.

### Play as DVD-Audio Play as DVD-VR Play as HighMAT or Play as Data Disc

Select "Play as Data Disc" to play JPEG, MPEG4 or DivX video contents on DVD-RAM that contain both RAM and another format (e.g. JPEG) or to play HighMAT discs without using the HighMAT function.

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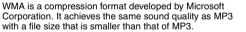
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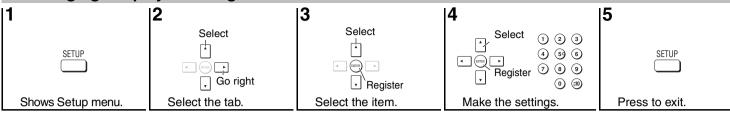
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### Changing the player settings



- The settings remain intact even if you switch the unit to standby.
- Underlined items are the factory preset.

The QUICK SETUP enables successive settings of the items in the shaded area.

### ■ "Disc" tab

■ "Disc" tab					
Audio	English (Language options)*1 Original*2				
Choose the audio	Other****				
language.					
Subtitle	Automatic <sup>*4</sup> English (Language options) <sup>*1</sup>				
Choose the subtitle	Other****				
language.					
Menus	English (Language options)*1 Other***				
Choose the	Changing the menu language from QUICK SETUP also				
language for disc	changes this setting.				
menus.					
Advanced Disc	Intro Mode: Reviews each title/program.				
Review	Interval Mode: Reviews each 10 minutes.				
Select how to review					
( <b>→</b> page 7).					
Ratings	Setting ratings (When level 8 is selected)				
Set a ratings level to	8 No Limit 1 to 7				
limit DVD-Video play.	Lock All: To prevent play of discs without ratings levels.				
<ul><li>Follow the on-</li></ul>	When setting a ratings level, a password screen is shown.				
screen instructions.	Follow the on-screen instructions.				
	Do not forget your password.				
	A message screen will be shown if a DVD-Video exceeding the rat-				
	ings level is inserted in the unit. Follow the on-screen instructions.				

### ■ "Video" tab

- Video tab	
TV Aspect Choose the setting to suit your television and preference.	4:3 Pan&Scan: Regular aspect television (4:3) The sides of the widescreen picture are cut off so it fills the screen (unless prohibited by the disc). 4:3 Letterbox: Regular aspect television (4:3) Widescreen picture is shown in the letterbox style.  16:9: Widescreen television (16:9)
TV Type Select to suit the type of television.	Standard (Direct View TV) LCD TV/Projector Plasma TV  CRT Projector Projection TV
Time Delay When connected with an AV amplifier and Plasma display, adjust if you notice the audio is out of sync with the video.	<u>0ms</u> 20ms 40ms 60ms 80ms 100ms
Video Out (AV/Component) <sup>±5</sup> Choose the video signal format to be output from the SCART and COMPONENT VIDEO OUT terminals (→ page 4).	Video/YPbPr S-Video/YPbPr RGB/No Output
Still Mode Specify the type of picture shown when paused.	Automatic Field: The picture is not blurred, but picture quality is lower. Frame: Overall quality is high, but the picture may appear blurred.
NTSC Disc Output Choose PAL 60 or NTSC output when playing NTSC discs.	PAL60: NTSC discs can be viewed on PAL television.  NTSC: Output signal from NTSC discs remains as NTSC.  Asia: "NTSC" is the factory preset.
Picture/Video Output Choose the video signal format to be output for JPEG, MPEG4 and DivX video.	Automatic: (Except Asia) PAL NTSC/PAL60: Output will depend on "NTSC Disc Output" setting (→ above). Asia: "NTSC/PAL60" is the factory preset.

### ■ "Audio" tab

PCM Digital Output	Off:		onnected with COAXIAL or
Check the digital input limitations of the	Up to 48 kHz:	OPTICAL te	rminal ected to equipment compatible
equipment you	<u>OP 10 40 KHZ.</u>	with 44.1 or	
connect using	Up to 96 kHz:		ected to equipment compatible
COAXIAL or	•	with 88.2 or	
OPTICAL terminal	Up to 192 kHz:		ected to equipment compatible
and select the		with 176.4 o	
maximum sampling	●Signals from of 44.1 kHz.	copy-protected	d discs are converted to 48 or
frequency of PCM		ont cannot be	andle sampling frequencies of
digital output.			nandle 96 kHz. Read your
			uctions for details.
Dolby Digital	Bitstream PC		Select "Bitstream" when the
With COAXIAL or			equipment can decode the
OPTICAL connections			bitstream (digital form of multi-
(→ page 5)			channel data). Otherwise,
DTS Digital	Bitstream PC	CM	select " <b>PCM</b> ". (If the bitstream is output to the equipment
Surround			without a decoder, high levels
With COAXIAL or			of noise can be output and
OPTICAL connections			may damage your speakers
( <b>→</b> page 5)			and hearing.)
MPEG*5 *6	PCM Bi	tstream	
With COAXIAL or			
OPTICAL connections			
( <b>→</b> page 5)			
Dynamic Range	Off		
Compression			en when the volume is low through ge of the lowest sound level and
			vel. Convenient for late night
			with Dolby Digital)
Speaker Settings	Speaker Type		· · · · ·
Choose the settings	Multi-channel: when 3 or more speakers are connected.		
to suit your audio	<b>2-channel</b> : when 2 speakers are connected.		
system and the listening environment Multi-channel Setting (If you select "Multi-channel Setting (If you sel			
(→ page 18,	Speaker presence and size		
Changing the	Delay time		
speaker setting to			
suit your speakers).	Channel balan	ce	

### ■ "Display" tab

Menu Language	*5 <u>English</u> Polski *6 <u>English</u> Português	Français Svenska Français Pyccкий	Nederlands	liano Españo liano Españo
	* <sup>7</sup> English	中文		
On-Screen Messages	On	Off		
Background during Play Select background during JPEG, MPEG4 and DivX video playback.	Black	Grey		

### ■ "Others" tab

<b>FL Dimmer</b> Changes the brightness of the unit's display.	Bright Dim Auto: The display is dimmed, but brightens only when you perform some operations.	
Auto Power Off	On: The unit switches to standby mode after about 30 minutes in the stop mode.  Off	
DivX Registration Displays the unit's registration code.	You need this registration code to purchase and play DivX Video-on-Demand (VOD) content. (→ page 19, About DivX VOD content)	
QUICK SETUP	<u>Yes</u> No	
Re-initialise Setting This returns all values in the Setup menus to the default settings.	Yes: The password screen is shown if "Ratings" (→ page 16) are set. Please enter the same password. After "INIT" on the display disappears, turn the unit off and on again.  No	

<sup>\*1</sup> Language options

The United Kingdom and Continental Europe

French, German, Italian, Spanish, Polish, Swedish and Dutch

The Middle East, South Africa, Australia and N.Z.:

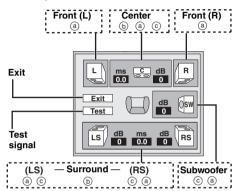
French, German, Italian, Spanish, Portuguese, Russian and Dutch Asia: Chinese

- \*\*2 The original language designed on the disc is selected.
- \*3 Input a code number referring to the table (→ page 18).
- \*\*4 If the language selected for "Audio" is not available, subtitles appear in that language (If available on the disc).
- \*5 The United Kingdom and Continental Europe
- \*\*6 The Middle East, South Africa, Australia and N.Z.
- \*7 Asia

### Changing the player settings

### Changing the speaker setting to suit your speakers

If you select "Multi-channel" (→ page 17, "Speaker Settings" in "Audio" tab), the following setting (ⓐ) is required. (Select settings ⓑ ⓒ to suit your preference if desirable.)



### Speaker presence and size (a)

- Press [▲ ▼ ◀ ▶] to select an item and press [ENTER].
- Press [▲ ▼] to change the content and press [ENTER].

### Icon examples:

Surround speaker (LS)



- Large: Select when the speaker supports lowfrequency (under 100 Hz) reproduction.
- Small: Select when the speaker does not support lowfrequency reproduction.

If the subwoofer is set to "No", the front speakers will automatically be set to "Large". (In this case, we recommend connecting a speaker that can reproduce bass below 100 Hz.)

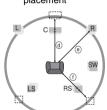
### Delay time (b)

### (Effective when playing multi-channel audio)

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

- Press [▲ ▼ ◀ ▶] to select an item and press [ENTER].
- Press [▲ ▼] to change the content and press [ENTER].





### d Center speaker

Difference	Setting	
Approx. 34 cm	1.0 ms	
Approx. 68 cm	2.0 ms	
Approx. 102 cm	3.0 ms	
Approx. 136 cm	4.0 ms	
Approx. 170 cm	5.0 ms	
Curround anackers		

### Surround speakers

Difference	Setting
Approx. 170 cm	5.0 ms
Approx. 340 cm	10.0 ms
Approx. 510 cm	15.0 ms

### Channel balance (©)

1. Select "Test" and press [ENTER].

A test signal is output.

 $Front (L) \longrightarrow Center \longrightarrow Front (R)$ 

Surround (LS)←——Surround (RS)

 While listening to the test signal, press [▲ ▼] to adjust the volume of the center and surround speakers so they are the same apparent volume as the front speakers (-6 to +6 dB).

(The front speakers cannot be adjusted here.)

. Press [ENTER].

The test signal stops.

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

To finish the speaker setting

Language code list Ahkhazian: 6566 Lingala: 7678 Afar: 6565 Lithuanian 7684 Afrikaans: 6570 Macedonian: 7775 8381 Malagasy: 7771 Albanian: Ameharic: 6577 Malay: 7783 Malayalam: Arabic: 6582 7776 Armenian: 7289 Maltese: 7784 Maori: Assamese: 6583 7773 6589 Marathi: 7782 Avmara: 6590 Moldavian: 7779 Azerbaijani: Bashkir: 6665 Mongolian: 7778 Basque: 6985 Nauru: 7865 Bengali; Bangla: 6678 Nepali: 7869 Bhutani: 6890 Norwegian: 7879 Oriva: 7982 Bihari: 6672 6682 Pashto, Pushto: 8083 Breton: Bulgarian: 6671 Persian: 7065 7789 Polish: 8076 Burmese: Portuguese: Byelorussian: 6669 8084 Punjabi: Cambodian: 7577 8065 Catalan: 6765 Quechua: 8185 Chinese: 9072 Rhaeto-Romance: 8277 8279 Corsican: 6779 Romanian: 7282 8285 Croatian: Russian: 8377 Czech: 6783 Samoan: Danish: 6865 Sanskrit: 8365 Dutch: 7876 Scots Gaelic: 7168 English: 6978 Serbian: 8382 Serbo-Croatian: Esperanto: 6979 8372 Estonian: 6984 Shona: 8378 7079 Sindhi: 8368 Faroese: Fiji: 7074 Singhalese: 8373 Finnish: 7073 Slovak: 8375 French: 7082 Slovenian: 8376 Frisian: 7089 Somali: 8379 Galician: 7176 Spanish: 6983 Georgian: 7565 Sundanese: 8385 8387 German: 6869 Swahili: Greek: 6976 Swedish: 8386 Greenlandic: 7576 Tagalog: 8476 Guarani: 7178 Tajik: 8471 Gujarati: 7185 Tamil: 8465 Hausa: 7265 Tatar: 8484 8469 Hebrew: 7387 Telugu: Thai: 8472 Hindi: 7273 Hungarian: 7285 Tibetan: 6679 Icelandic: 7383 Tigrinya: 8473 7378 Tonga: 8479 Indonesian: Interlingua: 7365 Turkish: 8482 Irish: 7165 Turkmen: 8475 Italian: 7384 Twi: 8487 7465 Ukrainian: 8575 Japanese: Javanese: 7487 Urdu: 8582 Kannada: 7578 Uzbek: 8590 Kashmiri: 7583 Vietnamese: 8673 Kazakh: 7575 Volapük: 8679 Kirghiz: 7589 Welsh: 6789 Wolof: Korean: 7579 8779 Kurdish: 7585 Xhosa: 8872 Laotian: 7679 Yiddish: 7473 7665 Yoruba: 8979 Latin: Latvian, Lettish: 7686 Zulu: 9085

Press [▲ ▼ ◀ ▶] to select "Exit" and press [ENTER]

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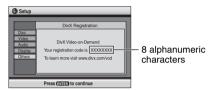
### About DivX VOD content

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

### Display the unit's registration code

(→ page 17, "DivX Registration" in "Others" tab)



- 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" or "Rental Expired" is displayed.)

When playing this content

- The number of remaining plays is reduced by one if -you press [6] or [SETUP].
  - -you press [■] (STOP). [Press [■] (PAUSE) to stop play.]
  - -vou press [ | ◀ ▶ ▶ ] (SKIP) or [ ◀ ▼ ▶ ] (SEARCH) etc. and arrive at another content or the start of the content being played.
- Resume (→ page 6, Stop) and Marker (→ page 13, Play Menu) functions do not work.

### Glossarv

### DivX

A video compression format developed by DivXNetworks, Inc. that compresses video files without any considerable loss of video quality.

### 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, unless the number of connected speakers is the same as the disc's channel specification, audio will not be output properly.

### HDCD (High-Definition Compatible Digital)

HDCD-encoded CDs sound better because they are encoded with 20 bits, as compared with 16 bits for all other CDs.

### MPEG4

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

### 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.

### Safety precautions

### **Placement**

Set the unit up on an even surface away from direct sunlight, high temperatures, high humidity, and excessive vibration. These conditions can damage the cabinet and other components, thereby shortening the unit's service life. Do not place heavy items on the unit.

### Voltage

Do not use high voltage power sources. This can overload the unit and cause a fire. Do not use a DC power source. Check the source carefully when setting the unit up on a ship or other place where DC is used.

### AC mains lead protection

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

Grasp the plug firmly when unplugging the lead. Pulling the AC mains lead can cause electric shock. Do not handle the plug with wet hands. This can cause electric shock.

### Foreign matter

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

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

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

### Service

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

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

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### **Troubleshooting guide**

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

### Power

No power.	Insert the AC mains lead securely into the household mains socket. (4)
The unit is automatically switched to the standby mode.	When "Auto Power Off" is set to "On", the unit automatically switches to standby after approximately 30 minutes in the stop mode. (17)

switched to the standby mode.	stop mode. (17)	
No operation		
No response when any buttons pressed.	This unit cannot play discs other than the ones listed in these operating instructions. (3) 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 AC mains lead, and then reconnect it. Condensation has formed: Wait 1 to 2 hours for it to evaporate.	
No response when remote control buttons pressed.	<ul> <li>Check that the batteries are installed correctly. (5)</li> <li>The batteries are depleted: Replace them with new ones. (5)</li> <li>Point the remote control at the remote control sensor and operate. (6)</li> </ul>	
No picture or sound.	Check the video or audio connection. (4, 5) Check the power or input setting of the connected equipment. Check that the disc has something recorded on it.	
You have forgotten your ratings password. Reset all the settings to Factory Preset.	<ul> <li>While stopped, press and hold [QUICK OSD] and [II] on the unit and then also press and hold [▲OPEN/CLOSE] on the unit until "Initialised" disappears from the television. Turn the unit off and on again. All settings will return to the default values.</li> </ul>	

### Cassific aparation impossible or incorrect

Specific operation impossible or incorrect		
It takes time before play starts.	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.      This is normal on DivX video.      DivX	
The program and random play functions do not work. DVD-V	These functions do not work with some DVD-Videos.	
Menu doesn't appear. VCD with playback control	Press [■] twice and then press [▶] (PLAY).	

The on-screen menu shows "2" as a soundtrack option when [AUDIO] is pressed, but the audio does not change. DVD-A	Even if a second soundtrack isn't recorded, two numbers will normally be shown.
Play doesn't start.	This unit may not play WMA and MPEG4 that contains still picture data. WMA MPEG4  If playing DixX VOD content, refer to the homepage where you purchased the DivX VOD content. (Example: www.divx.com/vod) DivX  If a disc contains CD-DA (CD) and other formats, proper playback may not be possible.
Play restarts from the beginning of the track when soundtrack is changed. DVD-A	●This is normal on DVD-Audio.
Subtitle position is wrong.	Adjust the position. ("Subtitle Position" in Display Menu) (14)
No subtitles.	Display the subtitles. (9)
In A-B Repeat, point B is automatically set.	The end of an item becomes point B when it is reached.
Repeat play is automatically canceled.	A-B Repeat is canceled when you press [QUICK REPLAY].     Repeat play may be canceled when you press [MANUAL SKIP] or [ADVANCED DISC REVIEW].

faded.

incorrectly or

colours appear

	[		
Picture incorrect			
cassette recorder. (4)  • Make sure that progressive when the connected televisic Press and hold [CANCEL] ur The settings will return to "xx	Ensure that the unit is not connected through a vic cassette recorder. (4)     Make sure that progressive output has not been so when the connected television is not progressive or Press and hold [CANCEL] until the picture displays The settings will return to "xxxi" (interlace).     Change "Source Select" in Picture Menu. (14)	elected ompatible. correctly.	
Picture size doesn't fit the screen.	<ul> <li>Change "TV Aspect" in "Video" tab. (16)</li> <li>Use the television to change the aspect. If your television have that function, change "4:3 Aspect" in Display Menu</li> <li>Change the Zoom setting. (9)</li> </ul>		
Picture stops.	• Picture may stop if the DivX files are greater than 2	2GB. DivX	
The television may display	<ul> <li>The unit and television are using different video sy Asia Use a multi-system or NTSC television.</li> </ul>	stems.	

Others Use a multi-system or PAL television.

The system used on the disc doesn't match your television.
 PAL discs cannot be correctly viewed on an NTSC television.

-This unit can convert NTSC signals to PAL 60 for viewing on a PAL

Menu not displayed correctly.	<ul> <li>Restore the zoom ratio to ×1.00. (9)</li> <li>Set "Subtitle Position" in Display Menu to "0". (14)</li> <li>Set "4:3 Aspect" in Display Menu to "Normal". (14)</li> </ul>
Auto zoom function does not work well.	Turn off TV's zoom function.  Use the other preset aspect ratios or manual adjustment. (9)  Zoom function may not work well, especially in dark scenes and may not work depending on the type of disc.

### Progressive video

3	
There is ghosting when progressive output is on.	<ul> <li>This problem is caused by the editing method or material used on DVD-Video, but should be corrected if you use interlace output. Change "Video Output Mode" in Picture Menu to "xxxi" (interlace). (14)</li> </ul>
Pictures not in progressive output.	<ul> <li>If the unit is connected to the television through VIDEO OUT or S VIDEO OUT, output will be interlace.</li> </ul>

### Sound incorrect

Sound distorted.	Set "Advanced Surround" in Audio Menu to "Off". (14) Set "Attenuator" in Audio Menu to "On" if it causes distortion with 2 ch or 5.1ch AUDIO OUT connections. (14) The disc may have restrictions on the method of audio output. With some multi-channel discs, unless the number of connected speakers is the same as the disc's channel specification, audio will not be output properly. Refer to the disc's jacket for more information. DVD-A  Match the speaker settings with the connected equipment. (18)
Piercing noise comes from the speakers.	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     "1" in "Audio" tab. (17)
Effects do not work.	None of the audio effects work when the unit is outputting bitstream signals from the DIGITAL AUDIO OUT terminal. (5) Some audio effects do not work or have less effect with some discs. Multi Re-master, Advanced Surround and Sound Enhancement do not work if you have changed the play speed.
No sound	There may be a pause in sound when you change the play speed. Audio may not be output due to how files were created. Divx (12)

### Recording

Cannot record to	<ul> <li>You cannot record WMA/MP3.</li> </ul>	
digital recording	<ul> <li>You cannot record DVDs that have prodigital recording.</li> </ul>	otection preventing
equipment. (Incorrect sound	You cannot record DVDs if the recording handle signals with a sampling freque	
recorded.)	Make the following settings:	•
	– Advanced Surround:	Off (14)
	– PCM Digital Output:	Up to 48 kHz (17)

### Unit displays

"NOPLAY"	<ul> <li>You inserted a disc the unit cannot play; insert one it can. (3)</li> <li>You inserted a blank disc.</li> <li>You inserted a disc that has not been finalized. (3)</li> </ul>
"U11"	● The disc may be dirty. (3)
"H□□" (□□ stands for a number.)	Trouble may have occurred. The number following "H" depends on the status of the unit. Turn the unit off and then back to ON. Alternatively, turn the unit off, disconnect the AC mains lead, and then reconnect it.  If the service numbers fail to clear, note the service number and contact a qualified service person.
"NODISC"	You haven't inserted a disc: Insert one. You haven't inserted the disc correctly: Insert it correctly. (6)

### **Television displays**

"⊘"	The operation is prohibited by the unit or disc.		
"Cannot play group xx, content xx" "Cannot display group xx, content xx"	You are trying to play incompatible group or content. (12)		
"Group xx, content xx is protected"	You are trying to play protected group or content. You cannot play it.		
"Cannot play audio" "No audio"	Audio has not been recorded, or recorded in a format this unit cannot playback. Video playback only is possible. (12)		
"Check the disc"	● This disc may be dirty. (3)		
"This disc may not be played in your region"	You can only play DVD-Video if their region number is the same or includes the same region number as the unit or if the DVD-Video is marked "ALL". Confirm the region number for the unit on the rear panel. (Cover)		
No on-screen display.	Select "On" in "On-Screen Messages" in "Display" tab. (17)		
"Authorization Error"	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.       DivX (19)		
"Rented Movie Expired"*2 "Rental Expired"*3	The DivX VOD content has zero remaining plays. You cannot play it. DivX (19)		

- \*\*1 MPEG: Except Asia

  \*\*2 Except Asia

  \*\*3 Asia

Specifications			
Signal system:	PAL 625/50, PAL525/60, NTSC	Audio performance:	
Operating temperature range:	+5 to +35 °C	(1) Frequency response:	
Operating humidity range:	5 to 90 % RH (no condensation)	•DVD (linear audio):	4 Hz to 22 kHz (48 kHz sampling)
Discs played (8 cm or 12 cm): (1) DVD (DVD-Video, DVD-Audio, Di	V.≈6.7\		4 Hz to 44 kHz (96 kHz sampling)
(2) DVD-RAM (DVD-VR, JPEG*4,7, N		• DVD Audio:	4 Hz to 88 kHz (192 kHz sampling)
	(4) DVD-RW (DVD-Video, DVD-VR, DivX*6,7)	●CD Audio:	4 Hz to 20 kHz
(5) +R/+RW (Video)	(1) 212 111 (212 1100), 212 111, 2111	(2) S/N ratio: ●CD Audio:	115 dB
(6) CD, CD-R/RW [CD-DA, Video-CD, SVCD*1, MP3*2,7, WMA*3,7, JPEG*4,7,		(3) Dynamic range:	115 UB
MPEG4*5,7, DivX*6,7, HighMAT Level 2 (Audio and Image)]		DVD (linear audio):	102 dB
Video output:	· · · · · · · · · · · · · · · · · · ·	•CD Audio:	98 dB
Output level:	1 Vp-p (75 Ω)	(4) Total harmonic distortion:	00 42
Output terminal:	D: : 1 /4	●CD Audio:	0.0025 %
The United Kingdom and Continental E		Digital audio output:	
Others	Pin jack (1 system)	Optical digital output:	Optical terminal
S-video output: Y output level:	1 Vp-p (75 Ω)	Coaxial digital output:	Pin jack
C output level:	NTSC; 0.286 Vp-p (75 Ω)	Pickup:	•
o output level.	PAL; 0.300 Vp-p (75 Ω)	Wave length:	662 nm/785 nm
Output terminal:	т. —, т. т. т. р. р. (т. т. – ,	Laser power:	CLASS 2/CLASS 3A
The United Kingdom and Continental E	urope S terminal (1 system)/AV	NORSK	
Others	S terminal (1 system)	Pickup:	000 /705
Component video output:		Bølgelengde: Laserstyrke:	662 nm/785 nm Ingen farlig stråling sendes ut
[NTSC: 525 (480)p/525 (480)i, PAL: 625 (576)p/625 (576)i]		Power supply:	ingentiality strailing serices ut
Y output level:	1 Vp-p (75 Ω)	The United Kingdom, Australia and N.Z.	AC 230 to 240 V, 50 Hz
P <sub>B</sub> output level:	0.7 Vp-p (75 Ω)	Continental Europe	AC 230 V, 50 Hz
P <sub>n</sub> output level: Output terminal:	$0.7 \text{ Vp-p } (75 \Omega)$ Pin jack (Y: green, P <sub>B</sub> : blue, P <sub>B</sub> : red) (1 system)	Others	AC 220 to 240 V, 50/60 Hz
RGB video output: The United Kingdom a	, , , , , , , , , , , , , , , , , , , ,	Power consumption:	11 W
R output level:	0.7 Vp-p (75 Ω)	Power consumption in standby mode:	approx. 1 W
Goutput level:	0.7 Vp-p (75 Ω)	Dimensions (W×D×H):	430 mm ×248 mm×43 mm
B output level:	0.7 Vp-p (75 Ω)	Mass:	2.2 kg
Output terminal:	AV		_
Audio output:		Note	
Output level:	2 Vrms (1 kHz, 0 dB)	Specifications are subject to change without notice. Mass and dimensions are	
Output terminal:	Din io ak/AV/	approximate.	

The United Kingdom and Continental Europe Pin jack/AV Pin jack Others

Number of terminals: 2 channel:1 system

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

**\***¹Conforming to IEC62107

\*2MPEG-1 Layer 3, MPEG-2 Layer 3

\*\*3Windows Media Audio Ver.9.0 L3

Not compatible with Multiple Bit Rate (MBR)

\*4Exif Ver 2.1 JPEG Baseline files

Picture resolution: between 160×120 and 6144×4096 pixels (sub sampling is 4:2:2 or 4:2:0) \*5MPEG4 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.

\*6DivX 3.11, 4.x, 5.x

GMC (Global Motion Compensation) is not supported.

\*\*7The total combined maximum number of recognizable audio, picture and video contents and groups: 4000 audio, picture and video contents and 400 groups.

### CAUTION!

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

### **WARNING:**

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

### **CAUTION!**

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

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

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

### The Middle East, South Africa and Asia

THIS UNIT IS INTENDED FOR USE IN TROPICAL CLIMATES.

The United Kingdom, Continental Europe, Australia and N.Z. THIS UNIT IS INTENDED FOR USE IN MODERATE CLIMATES.

### SUOMI

### VAROITUS!

LAITTEEN KÄYTTÄMINEN MUULLA KUIN TÄSSÄ KÄYTTÖOHJEESSA MAINITULLA TAVALLA SAATTAA ALTISTAA KÄYTTÄJÄN TURVALLISUUSLUOKAN 1 YLITTÄVÄLLE 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 ASENNA 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 YLIKUUMENEMISESTA JOHTUVA SÄHKÖISKU- TAI TULIPALOVAARA.
- ÄLÄ PEITÄ LAITTEEN TUULETUSAUKKOJA SANOMALEHDELLÄ, PÖYTÄLIINALLA, VERHOLLA TAI MUULLA VASTAAVALLA ESINEELLÄ.
- ÄLÄ ASETA PALAVAA KYNTTILÄÄ TAI MUUTA AVOTULEN LÄHDETTÄ LAITTEEN PÄÄLLE.
- HÄVITÄ PARISTOT LUONTOA VAHINGOITTAMATTOMALLA TAVALLA.

TÄMÄ LAITE ON TARKOITETTU KÄYTETTÄVÄKSI LEUDOSSA ILMASTOSSA.

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

### 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:

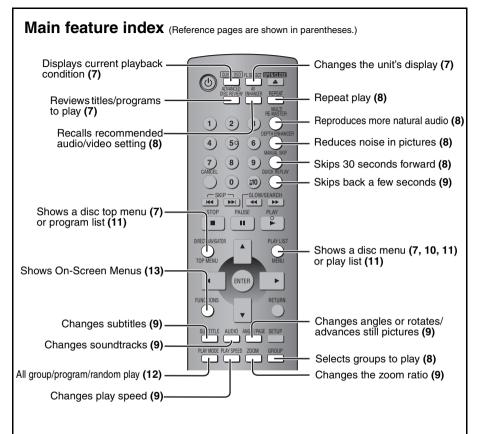
FOR Å REDUSERE FAREN FOR BRANN, ELEKTRISK STØT ELLER SKADER PÅ PRODUKTET, MÅ DETTE APPARATET IKKE UTSETTES FOR REGN, FUKTIGHET, VANNDRÅPER ELLER VANNSPRUT. DET MÅ HELLER IKKE PLASSERES GJENSTANDER FYLT MED VANN, SLIK SOM BLOMSTERVASER, OPPÅ APPARATET.

### 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-stikkontakten, og støpslet må være lett tilgjengelig hvis det skulle oppstå problemer.

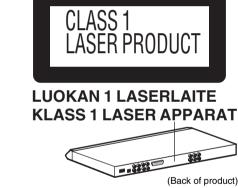


- LASER RADIATION WHEN OPEN DO NOT STARE INTO BEAM CAUTION - VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM.

AVOID EXPOSURE TO BEAM.

ATTENTION—RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE. EXPOSITION DANGEREUSE AU FAISCEAU ADVARSEL - SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSÆTTELSE FOR STRÅLING - AVATTAESSA OLET ALTTIINA NÄKYVÄÄ JA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN VARNING - SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN. ADVARSFI - SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES. INNGÅ EKSPONERING FOR STRÅLEN. VORSICHT - SICHTBARE UND UNSICHTBARE LASERSTRAHLUF GEÖFENET, NICHT DEM STRAHL AUSSETZEN 打开时有可见及不可见激光辐射、避免激光束照射 ここを開くと可視及び不可視レーザー光が出ます。 ビームを見たり、触れたりしないでください。 RQLCA0141

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



The illustration shows the models for the United Kingdom and Continental Europe.

Matsushita Electric Industrial Co., Ltd.

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



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