



Panasonic®

Operating Instructions Portable DVD/CD Player

Model No. **DVD-LX8**

Dear customer

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



Region number

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

Region	Number
For the United Kingdom and Continental Europe	2
For Asia	3
For Russia	5

Example: For the United Kingdom and Continental Europe



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



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
Caution for AC Mains Lead

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

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience. A 5-ampere fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark  or the BSI mark  on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local dealer.

CAUTION!

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

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

If in any doubt please consult a qualified electrician.

IMPORTANT

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

Blue: Neutral, Brown: Live.

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

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

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

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

THIS PLUG IS NOT WATERPROOF—KEEP DRY.

Before use

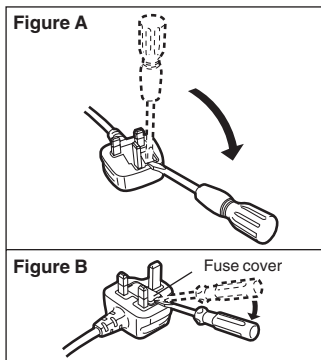
Remove the connector cover.

How to replace the fuse

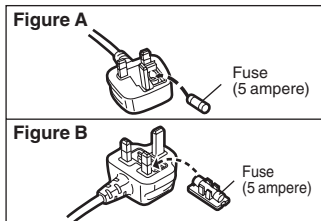
The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.

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.



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.

Marking sign is located on bottom of the unit.

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

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.

For the United Kingdom, Continental Europe, Russia


THIS UNIT IS INTENDED FOR USE IN MODERATE CLIMATES.

For Asia

THIS UNIT IS INTENDED FOR USE IN TROPICAL CLIMATES.

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

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!

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.

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.

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;

- Where the temperature is below 5 °C or above 35 °C. (Operating the unit beyond this range can cause the protection circuitry to function and render the unit inoperable.)
- Sandy places such as beaches.
- On top of cushions, sofas, or hot equipment such as amplifiers.

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.

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

For United Kingdom and Republic of Ireland

shop@ **Panasonic**

www.panasonic.co.uk (for UK customers only)

- Order accessory and consumable items for your product with ease and confidence by telephoning our Customer Care Centre Mon-Friday 9:00am-5:30pm. (Excluding public holidays.)
- Or go on line through our Internet Accessory ordering application.
- 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!

Customer Care Centre

For UK customers: 08705 357357

For Republic of Ireland customers: 01 289 8333

Technical Support

For UK customers: 0870 1 505610







This Technical Support Hot Line number is for Panasonic PC software related products only.

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

For all other product related enquiries, please use the Customer Care Centre numbers listed above.

Discs that can be played

This operating instruction manual uses the following icons such as **RAM**.

	<p>DVD-RAM RAM Recorded using Version 1.1 of the Video Recording Format (a unified video recording standard).</p>
	<p>DVD-Video DVD-V Some DVD-Audio discs contain DVD-Video content. To play DVD-Video content, select "DVD-Video Mode" (→ page 20).</p>
	<p>DVD-R DVD-V Panasonic DVD-R recorded and finalized* on Panasonic DVD-Video recorders or DVD-Video cameras are played as DVD-Video.</p>
	<p>DVD-Audio DVD-A Output is only 2 channels on this unit.</p>
	<p>Video CD VCD Includes SVCD (Conforms to IEC62107).</p>
	<p>CD CD WMA MP3 JPEG VCD This unit can play finalized* or session closed audio recording CD-R/RW. ● This unit also plays HighMAT discs (WMA, MP3, or JPEG files only).</p>

*A process that allows play on compatible equipment.

● It may not be possible to play the above discs depending of the type of disc used or condition of the recording.

Discs that cannot be played

- DVD-RAM (2.6GB/5.2GB, TYPE1) ● DVD-ROM ● DVD+R ● +RW
- DVD-RW ● CD-ROM ● CD-G ● SACD ● Photo-CD ● CDV
- Chaoji VCD that are available on the market including SVCD, CVD, DVCD etc.

To clean discs

DVD-A **DVD-V** **VCD** **CD**

Wipe with a damp cloth and then wipe dry.

RAM **DVD-R**

- Clean with an optional DVD-RAM/PD disc cleaner (LF-K200DCA1, where available).
- Never use cloths or cleaners for CDs etc.



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 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.

Accessories



Use numbers indicated in parentheses when asking for replacement parts. The included AC mains lead and AC adaptor are for use with this unit only. Do not use them with other equipment.

- 1 Remote control (N2QAJC000007)
- 1 Button-type battery for remote control (for replacement, see page 7)
- 1 Audio/video cable
 - For the United Kingdom, Continental Europe and Russia (RFE0133)
 - For Asia (K2KA6CB00003)
- 1 AC adaptor (RFEA905W-1W)
- 1 AC mains lead
 - For the United Kingdom (RJA0053-3X)
 - For others (RJA0019-2X)
- 1 Rechargeable battery pack (attached upon shipment) (for replacement, see page 23)

Preparations

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

1 Charging the battery (When the unit is off)

① Remove the insulator sheet

Make sure the built-in battery is attached whenever you use the unit.

- Use together with the optional battery pack for longer play (→ page 23).
- You can also use the optional car adaptor (→ page 22).
- You can also use this unit without charging while connecting the AC adaptor and the AC mains lead.

To conserve power
 This unit consumes 0.6 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.

Detaching/Attaching the built-in battery pack (→ page 23)

Approximate play times (→ page 23)

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

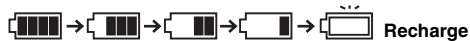
Recharging time:
Approx. 4 hours

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

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.

Checking the remaining battery charge

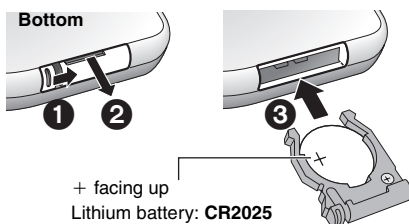
When the unit is on (→ page 8) and powered by the battery pack.



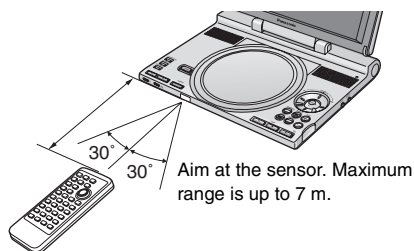
Press [DISPLAY] to check on the LCD (Displays for a few seconds). GUI screen (→ page 15) is also displayed at the same time. Press [RETURN] to cancel.

② The remote control

Insert the button-type battery (included)

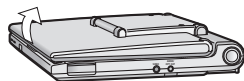


Range of use

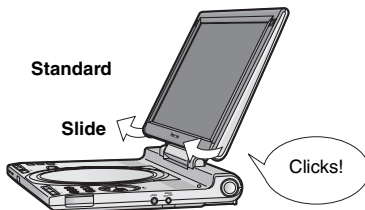


③ Adjusting the LCD angle

Open the LCD



Standard



Compact



Free



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

Play

Headphone terminal []
3.5 mm Stereo

1 Open the lid.



2 Insert a disc and close the lid.



Click into place

For two sided discs, insert the side you want to play with the label facing up.

For DVD-RAM, remove the disc from the cartridge.

3 Press and hold.

ON



The unit turns on and play begins.

4 Adjust the volume.

VOL







Turn the volume down when connecting with headphones (not included).

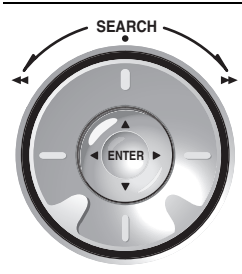





If the disc contains both audio data (WMA/MP3) and JPEG, select either setting from “Mixed Disc–Audio & Stills” (→ page 20).






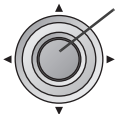

- While stopped, the unit automatically turns off once 15 minutes (after approximately 5 minutes when using the battery pack) have elapsed.
- Discs continue to rotate while menus are displayed. Press [■] when you finish to preserve the unit’s motor.

Main unit operations

<p>ON</p> 	<p>Turn unit on/ play</p>	<p>Press and hold and the power comes on and play begins.</p>
<p>—OFF</p> 	<p>Stop</p>	<p>While “▷” is flashing, press [▶, ON] and play begins from the position where play stopped.</p> <ul style="list-style-type: none"> • DVD-V While the message is displayed, press [▶, ON] and the previous chapters are reviewed. <p>Opening the lid, or pressing [■, —OFF] while “▷” is flashing cancels the memorized position where play stopped.</p>
<p>Turn unit off</p>	<p>Turn unit off</p>	<p>Press and hold until “OFF” is displayed.</p>
	<p>Pause</p>	<p>Press [▶, ON] to return to normal play.</p>
	<p>Skip</p>	<p>Skips items.</p>

	Search Slow play Menu operation Frame by Frame Group skip	Turn the shuttle dial. Release the shuttle dial to return to normal play. Turn the shuttle dial while paused. Press [▶, ON] to return to normal play. VCD [▶▶] only. Use [▲ ▼◀▶] to select an item and press [ENTER] to confirm. While paused, use [◀▶]. VCD [▶] only. JPEG Use [▲ ▼].
TOP MENU 	Top menu Direct navigator	DVD-A DVD-V RAM (→ page 13)
MENU 	Menu Playlist play	DVD-V RAM (→ page 13)
RETURN 	Return	Returns to the previous screen. VCD (with PBC) Returns to the menu.

Remote control operations

	Turn on/off You cannot use the remote control to turn the unit on when powered by the battery pack.
	Stop/Pause/Play (→ page 8)
ANGLE 	Changes the angle DVD-A DVD-V (with multiple angles)
SUB-TITLE 	Subtitles (→ page 11) RAM (On/Off only) DVD-V VCD (SVCD only) Track/Picture information WMA MP3 JPEG CD (CD text only)
	Search (During play)/Slow play (While paused) (→ above)
	Menu operation/Frame by Frame/Group skip (→ above)
	Select items using numbered button input (e.g.) 25: [≥10] → [2] → [5] WMA MP3 JPEG [2] → [5] → [ENTER] • VCD (with PBC) Selecting an item this way while stopped will cancel menu playback.

Useful functions

Repeat play ※ Can only be used with discs that show the elapsed time display.
For JPEG, you can use even if there is no elapsed time display.

REPEAT Select the content to repeat.



Repeat play between two desired points (→ page 17, A-B repeat play).

Select a group and play DVD-A WMA MP3 JPEG

While stopped

1 DISPLAY



e.g.) MP3



Group number Track number

- You can also use [GROUP] on the remote control.

2



- Use [▲ ▼] to select the group number and press [ENTER].
- Use [▲ ▼] to select the track or picture number and press [ENTER].

- You can also use the numbered buttons on the remote control to select a number (→ page 9).

DVD-A Play all groups (→ page 12, All group play)

Advanced surround RAM DVD-V VCD (Discs with more than 2ch audio)

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

- For discs recorded with surround sound signals, the surround signals also appear to be heard from the side.
- Turn the surround feature on the connected equipment off.
- 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 speakers.

A.SURROUND



Press to select "SP 1" (normal) or "SP 2" (emphasized).

When using headphones, press [◀] and use [▲ ▼] to select "HP".

Picture rotation JPEG

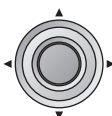
1

ANGLE



(Remote control)

2



(Remote control)

Use [▲ ▼] to select the rotation angle and press [ENTER].

- To cancel the screen, press [ANGLE].
- The rotation angle is cancelled when the unit is turned off or the lid is opened.

Selecting still pictures DVD-A

PAGE



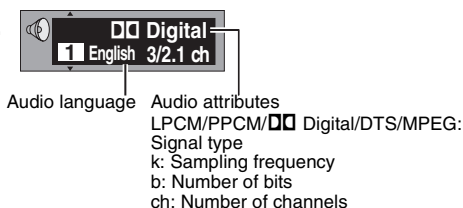
The page changes each time you press the button.

(Remote control)

Audio **RAM** **DVD-A** **DVD-V** **VCD** (For discs recorded with multiple audio)



Press to change.

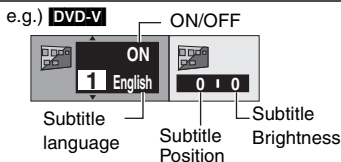


- **RAM** **VCD** You can select either “L”, “R”, or “LR”.
- **DVD-V** On karaoke discs you can turn the vocals on/off. Read the inside of the disc’s jacket for further details.

Subtitles **RAM** (On/Off only) **DVD-V** **VCD** (SVCD only)



Press to change.



On/Off

Use [▶] to select “ON/OFF” (**DVD-V** **VCD**), and change using [▲ ▼].

RAM (Only discs that contain subtitle on/off information)


Subtitle on/off information cannot be recorded using Panasonic DVD Recorders. (Subtitle on/off information is also not recordable on Panasonic DVD-R finalized with a Panasonic DVD Recorder.)

Adjusting the position/brightness **DVD-V**

Using [◀ ▶] to select “Subtitle Position/Subtitle Brightness” and adjust with [▲ ▼].

- “Auto” automatically adjusts the brightness.

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

MONITOR MODE	NORMAL:	Normal
	FULL:	Stretched horizontally
	ZOOM:	Stretched vertically and horizontally
	JUST:	Fills the screen for a more natural picture
	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.

Adjusting the picture quality on the LCD



Use [▲ ▼] to select the item, and [◀ ▶] to change the setting.

BRIGHT **COLOUR** **SHARP**
GAMMA (Adjusts the brightness of dark parts.)
AI MODE **BLUE LED**

- Press [PICTURE MODE] to cancel the screen.

Changing the play sequences Remote control only

DVD-A **DVD-V** **VCD** **CD** **WMA** **MP3**

While stopped

PLAY MODE



Press to change.

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

- To play a HighMAT disc using Program/Random play, select "Disable" from "HighMAT" (→ page 20).

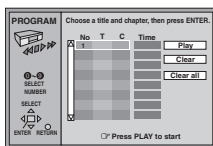
All group play **DVD-A**



(Play)

Program play (Max. 32 items)

e.g.) DVD-Video



Press to select an item (→ page 9).

To continue selecting, repeat this operation.



(Play)

Selecting all items

After pressing [ENTER], use [▲▼] to select "ALL" and press [ENTER].

To add/change a program

Use [▲▼] to select the item to change and perform step 1.

To cancel a program

Use [▲▼] to select the item to cancel and press [CANCEL].

• Using [▲▼◀▶] to select "Clear" and pressing [ENTER] also clears the item.

To cancel all programs

Use [▲▼◀▶] to select "Clear all" and press [ENTER].

• All programs are also cleared when you open the disc lid, or switch the unit off.

Random play

e.g.) DVD-Video



Press to select a group 2
(**DVD-A**) or title (**DVD-V**).



(Play)

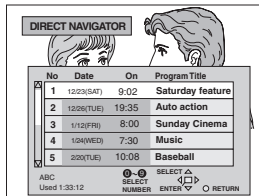
DVD-A

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

RAM disc play **RAM** ※ You cannot edit titles or playlists on this unit.

Selecting programs to play (DIRECT NAVIGATOR)

1 TOP MENU



2



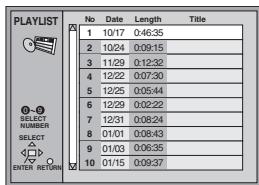
Use [**▲▼**] to select the program and press [**ENTER**].

You can also use the **numbered buttons** on the remote control (→ page 9).

- To cancel the menu, press [**TOP MENU**].

Playlist play ※ Only for discs created with playlists

1 MENU



2



Use [**▲▼**] to select the playlist and press [**ENTER**].

You can also use the **numbered buttons** on the remote control (→ page 9).

- To cancel the menu, press [**MENU**].

Playing a HighMAT™ CD

WMA **MP3** **JPEG**

Select "Enable" from "HighMAT". (→ page 20)



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



Menu:

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



Playlist:

Play starts.

- To return to the menu, press [**TOP MENU**].
- To change to the menu background recorded on disc, press [**DISPLAY**] while the menu is displayed.

Selecting from the list menu to play

1. During play, press [**MENU**].
 2. Use [**◀▶**] then [**▲▼**] to change the list.
 3. Use [**▶**] then [**▲▼**] to select an item and press [**ENTER**].
- To cancel the menu, press [**MENU**].



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

WMA/MP3/JPEG/CD text play

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

- If the disc contains both audio data (WMA/MP3) and JPEG, select either setting from “Mixed Disc–Audio & Stills” (→ page 20).
- Refer to page 24 regarding play limitations on this unit and creation of files on a computer.


1 TOP MENU



2



Use [**▲ ▼ ◀ ▶**] to select the track or picture and press [**ENTER**].

“” indicates the track currently being played.

- Use [**▲ ▼ ◀ ▶**] to display the next or previous pages by selecting “Prev” or “Next” and pressing [**ENTER**].

- Press [**TOP MENU**] to exit the menu.

Viewing track information **CD** (CD text only)

While the menu is displayed

Use [**▲ ▼**] to select a track and use [**▶**].

- To check other track information, use [**◀ ▶**].
- To play, press [**ENTER**].
- To return to the menu, press [**RETURN**].

Selecting a group using the tree menu **WMA** **MP3** **JPEG**

1 While the menu is displayed

WMA **MP3** Use [**▲ ▼**] to select the track and use [**▶**].

JPEG Use [**▲ ▼ ◀ ▶**] to select the “Tree” and press [**ENTER**].

2 Use [**▲ ▼ ◀ ▶**] to select the group and press [**ENTER**].

The selected group menu is displayed.

Searching the title to play **WMA** **MP3** **CD** (CD text only)

You can search using alphanumeric character input. (No difference between upper and lower case)

1 While the menu is displayed

Use [**▲ ▼**] to select “Find” and press [**ENTER**].

2 Use [**▲ ▼**] to select the character and press [**ENTER**].

- Use [**◀▶▶▶**] to skip between A, E, I, O, U.
- Use [**◀**] to re-select a character.
- To continue character input, repeat step 2.
- Erase the asterisk (*) to search for the titles starting with that character.

3 Use [**▶**] to select “Find” and press [**ENTER**].

The result of the search appears on screen.

4 Use [**▲ ▼**] to select the track and press [**ENTER**].

To return to the previous menu, press [**RETURN**].

Operating with GUI screens

Disc information

1 **DISPLAY**

Press once.

2

Use [**◀ ▶**] to select the item and [**▲ ▼**] to set.

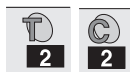


Items shown differ depending on the type of software.

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 finish, press [**RETURN**].

To start from a specific item



Karaoke Vocals On/Off
Karaoke **DVD-V** only

To start from a specific time



RAM DVD-A DVD-V



Bit rate (kbps)/
Sampling frequency
(kHz) (Display only)
WMA MP3

Changes to the elapsed time or the remaining time

RAM DVD-A DVD-V VCD CD

Elapsed play time (Display only)

VCD (SVCD only) **WMA MP3**



Audio channel

RAM VCD



Track number/total number of tracks on the disc
WMA MP3

Picture number/total number of pictures on the disc
JPEG



Menu playback display (Display only)

VCD with PBC (playback control)



Slideshow On/Off **JPEG**

Slideshow display duration **JPEG** 0-30 sec

Slideshow display (Display only) **DVD-A**



Audio (→ page 11,
Audio language
→ below)



Subtitles (→ page 11,
Subtitle language → below)
Track information On/Off
WMA MP3 CD (CD text only)
Picture information **JPEG**
Date/Full/OFF



Still picture
number **DVD-A**

To return to page 1, use [**◀ ▶**] to select "Return"
and press [**ENTER**].



Angle **DVD-A DVD-V** (with multiple angles)



Adjusts the GUI screens position (5 positions)

Audio/Subtitle language

ENG: English
FRA: French
DEU: German
ITA: Italian
ESP: Spanish
NLD: Dutch
SVE: Swedish
NOR: Norwegian
DAN: Danish
POR: Portuguese

RUS: Russian
JPN: Japanese
CHI: Chinese
KOR: Korean
MAL: Malay
VIE: Vietnamese
THA: Thai
*: Others

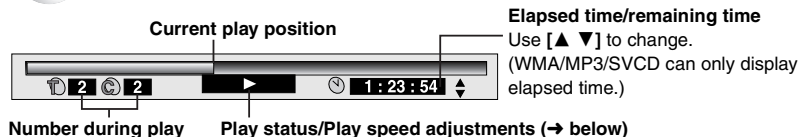
Operating with GUI screens

Checking the play status (Progress indicator)

DISPLAY

Press twice.

• To finish, press [RETURN].



You can slow down or speed up play **DVD-V** (Dolby Digital disc)

During play, use [◀ ▶]. (The play speed changes in 5 steps.)

• To return to normal play, press [▶, ON].

• Depending on the disc, there may be places that cannot be changed.

Main unit information

1

DISPLAY

Press
3 times.



2



① Use [▲ ▼] to select the menu.

② Use [◀ ▶] to select the item
and [▲ ▼] to set.

• To finish, press [RETURN].



Display menu

4:3 Aspect **RAM** **DVD-A** **DVD-V** **VCD** **JPEG**

Select how to show images made for 4:3 aspect screens on a 16:9 aspect television.

Normal: laterally stretches images made for a 4:3 screen.

Auto: expands suitable 4:3 letterbox images to fill more of the screen. Other images appear in full in the center of the screen.

Shrink: images appear in the center of the screen.

Zoom: expands all images to fill the screen.

• If your television has a similar feature, use it instead for a better effect.

Zoom (You can adjust to fit different picture sizes to your television.)

RAM **DVD-V** **VCD**

• Set the TV aspect to match your television from "TV Aspect" (→ page 19).

Press [ENTER] and select using [◀ ▶] and then press [ENTER].

Zoom fine adjustments

× 1.00 to × 2.00

Subtitle Position/Brightness adjustments (→ page 11)

Bit rate display (Shows the average bit rate of the video being played.)

RAM **DVD-V** **VCD**



Normal



x1.00



0 | 0



Bit
OFF



Play menu



Repeat play between two points (A-B repeat play)

RAM DVD-A DVD-V VCD CD WMA MP3

Press [ENTER] at the starting point/ending point. To cancel, press [ENTER] again.



Repeat play (→ page 10)



Play mode (Display only) DVD-A DVD-V VCD CD WMA MP3

--- : Normal play ALL: All group (DVD-A) PGM: Program RND: Random



Position marking (Marker)—Up to 5 points (RAM Up to 999 points)

Press [ENTER] to perform the following operations. (RAM Perform the following after using [▶] to select “*”).

To place a marker→ Press [ENTER].

To place another marker→ Use [◀▶] to select “*” and press [ENTER].

To recall a marker→ Use [◀▶] to select a marker and press [ENTER].

To erase a marker→ Use [◀▶] to select a marker and press [CANCEL] on the remote control.

- Markers you added on this unit are cancelled when you open the disc lid or turn the unit off.

RAM Adding more than 11 markers

1. Use [◀▶] to select the marker pin icon
2. Use [▲▼] to select “11–20”.



Picture menu



Picture mode RAM DVD-A DVD-V VCD JPEG

N (Normal): Normal mode

C1 (Cinema 1): Mellows images and enhances detail in dark scenes.

C2 (Cinema 2): Sharpens images and enhances detail in dark scenes.



Transfer mode (LCD, NTSC disc only) RAM DVD-A DVD-V VCD

Select the method of conversion to suit the type of material being played.

Auto1 (normal): for viewing film material

Auto2: for viewing film material (the same as Auto1, but able to convert 30-frame-per-second progressive video)

Video: for video material



Audio menu



Advanced surround (→ page 10)

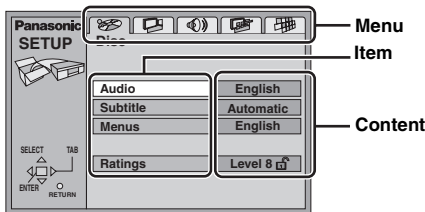
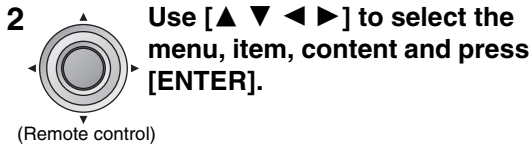


Dialogue enhancer (Better movie dialogue clarity)

DVD-A DVD-V (Discs with a center channel recorded in Dolby Digital)

Changing the player settings

- Referring to pages 18 to 20, change as required.
- Underlined items are the factory presets.
- The settings remain intact even if you switch the unit to standby.



- To return to the previous screen, press [RETURN].
- To finish the SETUP menu, press [SETUP].
- While stopped, the menu is also displayed when [MENU] on the main unit is pressed, however, when a DVD-RAM or HighMAT CD is being used a playlist menu appears.

Disc

Audio	<ul style="list-style-type: none"> • <u>English</u> • <u>Original</u>^{*1} • Other*****^{*3} 	Language Options
Subtitle	<ul style="list-style-type: none"> • <u>Automatic</u>^{*2} • <u>English</u> • Other*****^{*3} 	For the United Kingdom,
Menus	<ul style="list-style-type: none"> • <u>English</u> • Other*****^{*3} 	Continental Europe and Russia
		<ul style="list-style-type: none"> • French • Italian • Portuguese • Dutch
		<ul style="list-style-type: none"> • German • Spanish • Swedish
		For Asia
		<ul style="list-style-type: none"> • French • Spanish
Ratings	<ul style="list-style-type: none"> • <u>8: No Limit.</u> • 1 to 7: Prohibits play corresponding to ratings recorded on the disc. • 0 Lock All: To prevent play of discs without ratings levels. Once level 0 to 7 is set, a password entry screen is displayed. Follow the on-screen instructions. <p>Do not forget your password.</p> <ul style="list-style-type: none"> • When you insert a disc that exceeds the ratings limit, a message appears on the screen. Follow the on-screen instructions. 	


^{*1}The original language designed 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 20.



Video

<p>TV Aspect Choose the setting to suit your television and preference.</p>	<ul style="list-style-type: none"> ● 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 Use the television's screen modes to change the way the picture is shown. 	
<p>Still Mode Specify the type of picture shown when paused.</p>	<ul style="list-style-type: none"> ● Automatic ● Field: The picture is not blurred, but picture quality is lower. ● Frame: Overall quality is high, but the picture may appear blurred. 	
<p>NTSC Disc Output Choose PAL 60 or NTSC output when playing NTSC discs.</p>	<ul style="list-style-type: none"> ● PAL60: When connected to a PAL television ● NTSC: When connected to an NTSC television 	



Audio

<p>PCM Digital Output (Only when connected using a digital optical cable → page 21)</p>	<p>Check the digital input limitations of the equipment you connect and select the maximum sampling frequency of PCM digital output.</p> <p>Off: When not connected using a digital optical cable</p> <p>Up to 48 kHz: When connected to equipment compatible with 44.1 or 48 kHz</p> <p>Up to 96 kHz: When connected to equipment compatible with 88.2 or 96 kHz</p> <p>Up to 192 kHz: When connected to equipment compatible with 176.4 or 192 kHz</p> <ul style="list-style-type: none"> ● Signals that exceed the set maximum frequency and signals from copy-protected discs are converted to 48 or 44.1 kHz. ● Some equipment cannot handle sampling frequencies of 88.2 kHz, even if they can handle 96 kHz. Read your equipment's operating instructions for details. 	
<p>Dolby Digital (Only when connected using a digital optical cable → page 21)</p>	<ul style="list-style-type: none"> ● <u>Bitstream</u> ● PCM 	<p>Select "Bitstream" when the equipment can decode the bitstream (digital form of multi-channel data). Otherwise, select "PCM".</p> <ul style="list-style-type: none"> ● 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.
<p>DTS Digital Surround (Only when connected using a digital optical cable → page 21)</p>	<ul style="list-style-type: none"> ● <u>PCM</u> ● Bitstream 	
<p>MPEG* (Only when connected using a digital optical cable → page 21)</p>	<ul style="list-style-type: none"> ● <u>PCM</u> ● Bitstream 	
<p>Dynamic Range Compression (Dolby Digital only)</p>	<ul style="list-style-type: none"> ● <u>Off</u> ● On: For clear dialogue when listening at low volume. 	
<p>Audio during Search Choose whether to have sound during search</p>	<ul style="list-style-type: none"> ● <u>On</u> ● Off <p>Audio will be heard when playing some DVD-Audio despite the settings made here.</p>	

※ **Asia** MPEG is not available.

Changing the player settings



Display

Menu Language	<p>For the United Kingdom, Continental Europe and Russia</p> <ul style="list-style-type: none"> ● <u>English</u> ● Français ● Deutsch ● Italiano ● Español ● Português ● Svenska ● Nederlands <p>For Asia</p> <ul style="list-style-type: none"> ● <u>English</u> ● Français ● Español
On-Screen Messages	<ul style="list-style-type: none"> ● <u>On</u> ● Off



Others

HighMAT	<ul style="list-style-type: none"> ● <u>Enable</u>: Plays as HighMAT ● <u>Disable</u>: Plays as WMA/MP3/JPEG
Mixed Disc—Audio & Stills	<ul style="list-style-type: none"> ● <u>Audio (MP3/WMA)</u> ● <u>Stills (JPEG)</u>
DVD-Video Mode	<ul style="list-style-type: none"> ● <u>Off</u> ● On <p>The setting returns to “Off” when the lid is opened or the unit is turned off.</p>
Demo	<ul style="list-style-type: none"> ● <u>Off</u> ● On <p>Pressing any other button besides [MONITOR MODE] and [PICTURE MODE] stops the demo and the setting returns to “Off”.</p>

Language code list

Abkhazian: 6566	Chinese: 9072	Hindi: 7273	Malagasy: 7771	Samoan: 8377	Tibetan: 6679
Afar: 6565	Corsican: 6779	Hungarian: 7285	Malay: 7783	Sanskrit: 8365	Tigrinya: 8473
Afrikaans: 6570	Croatian: 7282	Icelandic: 7383	Malayalam: 7776	Scots Gaelic: 7168	Tonga: 8479
Albanian: 8381	Czech: 6783	Indonesian: 7378	Maltese: 7784	Serbian: 8382	Turkish: 8482
Ameharic: 6577	Danish: 6865	Interlingua: 7365	Maori: 7773	Serbo-Croatian: 8372	Turkmen: 8475
Arabic: 6582	Dutch: 7876	Irish: 7165	Marathi: 7782	Shona: 8378	Twi: 8487
Armenian: 7289	English: 6978	Italian: 7384	Moldavian: 7779	Sindhi: 8368	Ukrainian: 8575
Assamese: 6583	Esperanto: 6979	Japanese: 7465	Mongolian: 7778	Sinhalese: 8373	Urdu: 8582
Aymara: 6588	Estonian: 6984	Japanese: 7487	Nauru: 7865	Slovak: 8375	Uzbek: 8590
Azerbaijani: 6590	Faroese: 7079	Kannada: 7578	Nepali: 7869	Slovene: 8376	Vietnamese: 8673
Bashkir: 6665	Fiji: 7074	Kashmiri: 7583	Norwegian: 7879	Somali: 8379	Volapük: 8679
Basque: 6985	Finnish: 7073	Kazakh: 7575	Oriya: 7982	Swahili: 8387	Welsh: 6789
Bengali; Bangla: 6678	French: 7082	Kirghiz: 7589	Pashto, Pushto: 8083	Sundanese: 8385	Wolof: 8779
Bhutani: 6890	Frisian: 7089	Korean: 7579	Persian: 7065	Swahili: 8387	Xhosa: 8872
Bihari: 6672	Galician: 7176	Kurdish: 7585	Polish: 8076	Swedish: 8386	Yiddish: 7473
Breton: 6682	Georgian: 7565	Laotian: 7679	Portuguese: 8084	Tagalog: 8476	Yoruba: 8979
Bulgarian: 6671	German: 6869	Latin: 7665	Punjabi: 8065	Tajik: 8471	Zulu: 9085
Burmese: 7789	Greek: 6976	Latvian, Lettish: 7686	Quechua: 8185	Tamil: 8465	
Byelorussian: 6669	Greenlandic: 7576	Lingala: 7678	Rhaeto-Romance: 8277	Tatar: 8484	
Cambodian: 7577	Guarani: 7178	Lithuanian: 7684	Romanian: 8279	Telugu: 8469	
Catalan: 6765	Gujarati: 7185	Macedonian: 7775	Russian: 8285	Thai: 8472	

Using this unit with other equipment

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

Enjoying with 5.1ch audio

Right side of this unit



Digital optical cable

- Do not bend sharply.
- Align and insert.

Amplifier with a built-in decoder or a decoder-amplifier combination



OPTICAL IN

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

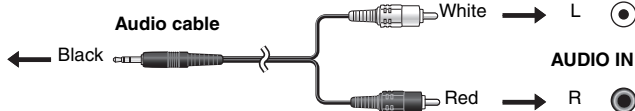
- Change "PCM Digital Output", "Dolby Digital", "DTS Digital Surround" and "MPEG*" (→ page 19).
- **DVD-A** Output will be only 2 channels.
- ※ **Asia** MPEG is not available.

Enjoying stereo audio

Right side of this unit



Amplifier/System component

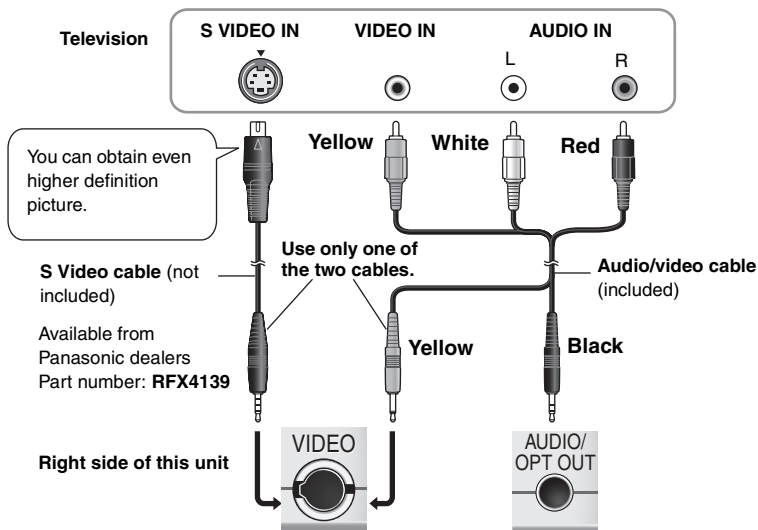


Using this unit with other equipment

Using this unit with other equipment

Television connections

Connect the video output from this unit directly to the television.

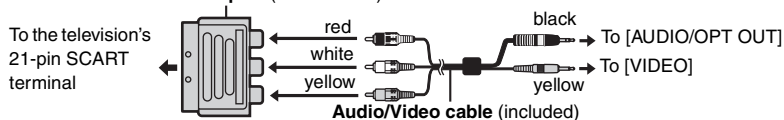


If you raise the volume on the television while playing this unit, the volume may abruptly become very loud when you switch to a television broadcast. Return the volume to its normal level before changing.

For the United Kingdom, Continental Europe and Russia

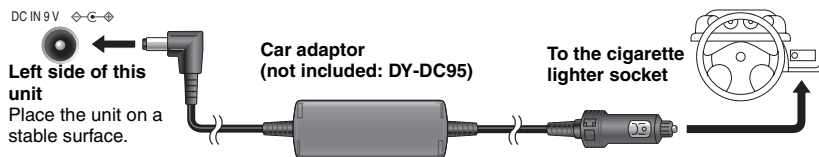
Use the RCAJ adaptor (not included) if your TV has a 21-pin SCART terminal.

RCAJ adaptor (not included)



Using a car adaptor

- In the interests of the traffic safety, do not perform operations on this unit or view video software while driving a vehicle.
- Read the car adaptor's operating instructions carefully.



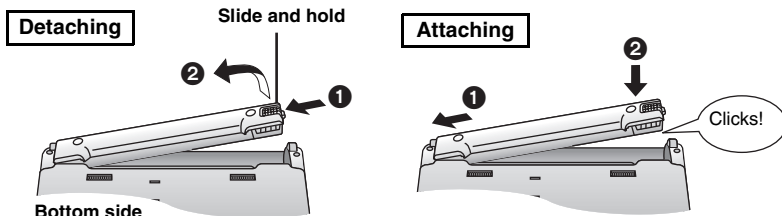
You can enjoy audio through your car audio system by connecting a car stereo cassette adaptor (not included: SH-CDM10A) to the headphone jack on the left side of this unit.

Battery pack

Turn the unit off before detaching/attaching the battery pack.

Built-in battery pack

For replacement: CGR-H604 (Available from Panasonic dealers)

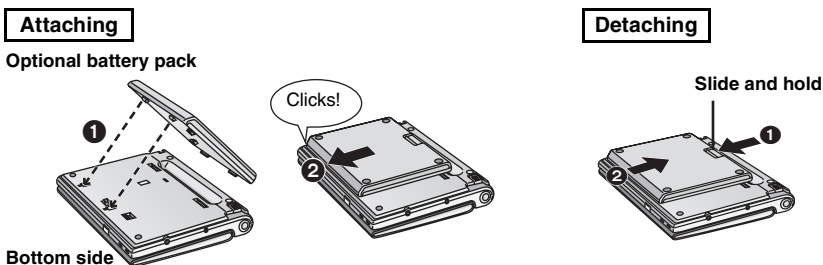


Bottom side

Check to make sure it is securely fastened.

Optional battery pack (CGP-H501)

- Use together with the built-in battery pack (→ above).
- Attach the optional battery pack to the main unit and charge the battery before using for the first time (→ page 6).



Bottom side

Approximate recharging and play times (Hours)

Recharging [at 20°C]	Play (at room temperature using headphones)			
	LCD brightness level			LCD Off
	-5	0 (factory preset)	+5	
4 (13)	2.5 (7.5)	2 (6)	1.5 (4.5)	3.5 (10.5)

- The times indicated above may differ depending on use.
- Times for when used along with the optional battery pack (→ above) are in parenthesis.
- To change the LCD brightness (→ page 11).

When not using for long periods of time

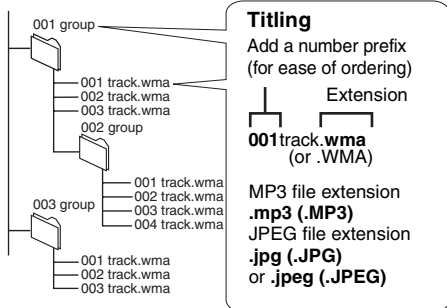
- Remove the battery pack (→ above). (Even when the unit is turned off, there is a small amount of voltage running through the unit, and this may result in a malfunction.)
- Recharge the battery for re-use.

Creating files on a computer

WMA MP3 JPEG

Folders and files created on a computer are displayed as group names and track/picture names on this unit.

Root



Unit limitations

- 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.
- Groups below the 8th tree level are displayed on the same level as the 8th level.
- The menu display on this unit and on a computer may be different.
- Depending on how a disc was created, the play order may change.
- Files created using packet write cannot be played.

WMA

- You cannot play WMA files that are copy protected.

MP3

- This unit is not compatible with ID3 tags.

JPEG

- To view JPEG files on this unit:
 - Take them on a digital camera that meets the DCF Standard (Design rule for Camera File system) Version 1.0. Some digital cameras have functions that are not supported by the DCF Standard Version 1.0 like automatic picture rotation which may render a picture un-viewable.
 - Do not alter the files in any way or save them under a different name.
- This unit cannot display moving pictures, MOTION JPEG and other such formats, still pictures other than JPEG (e.g. TIFF) or play associated sound.

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

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

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



Frequently asked questions

Reference pages are shown in parentheses.

What kind of equipment is necessary to enjoy 5.1ch audio?	Connect to an AV amplifier with a built-in decoder that has 5.1ch audio output terminals. (21) DVD-A: This unit plays DVD-Audio in 2 channels. You cannot play multi channel surround sound.
Can I play a DVD-Video bought in another country?	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 bottom panel. Check the disc jacket. (Cover)
Can I use on an airplane or in a hospital?	Electromagnetic waves that are emitted from this unit may affect equipment on an airplane or in a hospital. Please obey the rules and or instructions indicated by the hospital or airline.
Can I use in a car?	You can use this unit by connecting with the separately sold car adaptor (part no. DY-DC95) for power. Damage may occur if you do not use the specified car adaptor. (22)
Can I connect with a computer?	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 the peripheral equipment.

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"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.

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.

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 over long periods.

Reference pages are shown in parentheses.

Power

No power.

- Check connections to the AC adaptor or battery pack. **(6), (23)**
- You cannot turn on the unit with the remote control if the unit is powered by the battery pack.

Unit turns off automatically.

- 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.

Unit doesn't work when powered by battery pack.

- The unit and battery pack have protection circuitry that activate if they become too hot or too cold. They will not work if this occurs. Use the unit and battery pack between 5 °C and 35 °C.

Cannot charge or the [CHG] indicator fails to light.

- The battery pack can only be recharged when the unit is off.
- The charging time increases when the temperature is too hot or too cold, and charging may not be possible under some circumstances.
- Check connections to the AC adaptor or battery pack. **(6), (23)**

Play time dramatically reduces after recharging.

- The battery pack has reached the end of its service life (It can be recharged about 300 times).

Operation

It takes time before play starts. **[MP3]**

- 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.

Programmed items are not played. **[DVD-V]**

- Some items cannot be played even if you have programmed them.

A menu screen appears during skip or search. **[VCD]**

- This is normal for Video CDs.

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 restarts from the beginning of the track when soundtrack is changed. **[DVD-A]**

- This is normal on DVD-Audio.

In A-B repeat, Point B is automatically set.

- The end of an item becomes point B when it is reached.

Subtitle position is wrong.

- Adjust the position. **(11, "Subtitle Position")**

No subtitles.

- Display the subtitles. **(11)**

You have forgotten your ratings password. Reset all the settings to Factory Preset.

- While stopped, press and hold [**◀◀**] and [**■**] on the unit and then also press and hold [**▶**, **ON**] on the unit until "Initialized" disappears from the screen. Turn the unit off and on again. All settings will return to the default values.

Operation

No response when any buttons pressed.

Play fails to start or stops soon after starting.

No response when remote control buttons pressed.

Cannot add markers.

There are already markers. **RAM**

Marker numbers I added are different when I call them up. **RAM**

- Some discs prohibit certain operations.
- If there is no response at all, the unit may have been affected by lightning or static electricity. 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.
- Condensation has formed: Wait 1 to 2 hours for it to evaporate.
- This unit cannot play discs other than those specified. (5)
- Clean the disc. (5)
- Ensure the disc is inserted correctly. (8)
- Check that the disc has something recorded on it.
- Check that the battery is installed correctly. (7)
- The battery is depleted: Replace it with new ones. (7)
- Point the remote control at the remote control sensor and operate. (7)
- You cannot add markers while playing a playlist or discs that do not show the elapsed time.
- The unit reads and displays the markers added with a DVD video recorder. You can clear them but reappear when you switch the unit to standby or open the lid.
- When you add and delete markers, the order of previously set markers changes because all markers are ordered by time.

Sound

There is a lot of noise.

No sound from the unit's speaker.

No sound from other speakers.

Cannot play multi channel surround sound.

Distorted sound.

Piercing noise comes from the speakers.

Sound effects do not work.

Cannot record to digital recording equipment. (Incorrect sound recorded.)

- Move unit away from mobile phones.
- Noise may occur when playing WMA files.
- The speaker is off if the LCD is closed or headphones are connected.
- Turn up the volume. (8)
- Check all connections and settings. (19), (21)
- Output is in stereo (PCM) if you have changed the play speed.
- This unit plays DVD-Audio in 2 channels.
- Turn Advanced surround off if this occurs. (10)
- If you have connected a digital amplifier which does not include a decoder, be sure to select "PCM" in "Dolby Digital", "DTS Digital Surround" or "MPEG*" in "Audio" tab. (19)
- Dialogue enhancer and Advanced surround do not work when the unit is outputting bitstream signals. (19)
- Advanced surround does not work if you have changed the play speed. (16)
- Some audio effects do not work or have less effect with some discs.
- You cannot record WMA/MP3.
- You cannot record DVDs that have protection preventing digital recording.
- You cannot record DVDs if the recording equipment cannot handle signals with a sampling frequency of 48 kHz.
- Make the following settings:
 - Advanced surround: OFF (10)
 - PCM Digital Output: Up to 48 kHz (19)
 - Dolby Digital/DTS Digital Surround/MPEG*:PCM (19)

※ **Asia** MPEG is not available.

Picture

The LCD is dark.

Picture distorted.

Menu not displayed correctly.

No picture on the LCD.

Picture doesn't appear on the television (or the size of the picture seems wrong).

LCD pixels turn black or radiate different colors.

- Adjust the brightness. (11)
- Some disruption is normal during SEARCH.
- Restore the zoom ratio to $\times 1.00$. (16)
- Set the subtitle position to 0. (11)
- Set "4:3 Aspect" in Display Menu to "Normal". (16)
- Select a monitor mode other than "OFF" (no picture). (11, **Selecting how to show 4:3 aspect pictures on the LCD**)
- Check connections. (22)
- Check that the television is on.
- Check that the input mode on the television is correct.
- Check the settings in "Video—TV Aspect". (19)
- Turn off the zooming feature on your television if you are using Zoom. (16)
- Ensure that the unit is connected directly to the television, and is not connected through a video cassette recorder. (22)
- The unit and television are using different video systems. 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 television ("NTSC Disc Output" in "Video" tab). (19)
- 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.

Displays

"

GUI screens are cut off.

No On-Screen display.

"Check the disc."

" ERROR 01"

" ERROR 02"

" ERROR 03"

"H

stands for a number.

"No Select"

- The operation is prohibited by the unit or disc.
- Adjust the position. (15)
- Select "On" for "On-Screen Messages" in Display menu. (20)
- Clean the disc. (5)
- You inserted a DVD-R that has not been finalized.
- A problem has occurred with the battery pack. Consult your dealer.
- The battery pack has been recharging for 12 hours but has failed to recharge for some reason. Recharge again.
- You are recharging in a location that is too hot or too cold. Recharge at normal temperature (+5 to +35 °C).
- 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 number and consult your dealer.
- Press **[■, -OFF]**, then retry the operation again.

[ⓘ] and [CHG] indicators

The [ⓘ] indicator flashes rapidly.

The [ⓘ] indicator flashes slowly.

The [CHG] indicator flashes rapidly.

The [CHG] indicator flashes slowly.

- The unit has malfunctioned. Consult your dealer.
- 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.
- There is a problem with the battery pack. Turn the unit on and check the message on the LCD. **(28)**
- Battery pack charge is low. The unit will turn off automatically after a few minutes. **(6)**

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.)
- Be careful not to touch the lens with your fingers.

Specifications

■ Main unit

Discs played: DVD-RAM (DVD-VR format)
DVD-Video, DVD-Audio
Music CD [CD-DA (CD-TEXT compatible)]
Video CD

CD-R/CD-RW [CD-DA (CD-TEXT compatible),
Video CD, MP3, WMA, JPEG,
HighMAT Level 2 (Audio and Image)]
DVD-R (finalized as DVD-Video)

Signal system: PAL/PAL60/NTSC

LCD screen: 9" α -Si, TFT wide-screen LCD
(VGA 800×480×RGB pixels)

Composite-video output:

Output level: 1 Vp-p (75 Ω)
Output terminal: Mini-jack
Number of terminals: 1 system

S-video output:

Y output level: 1 Vp-p (75 Ω)
C output level: 0.3 Vp-p (75 Ω)
Output terminal: Mini-jack
Number of terminals: 1 system
(also used for composite video output)

Audio output:

Output level: 1.5 Vrms
(1 kHz, 0 dB, 10 k Ω)
Output terminal: Stereo mini-jack
Number of terminals: 1 system

Audio performance:

- (1) Frequency response:
 - DVD (linear audio):
4 Hz–22 kHz (48 kHz sampling)
4 Hz–44 kHz (96 kHz sampling)
 - DVD-Audio:
4 Hz–88 kHz (192 kHz sampling)
 - CD audio: 4 Hz–20 kHz
- (2) S/N:
 - 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:

Output terminal: Mini optical terminal
Number of terminals: 1 system
(also used for audio output)

Pickup:

Wave length: 658 nm/790 nm
Laser power: CLASS 2/CLASS 1

NORSK

Pickup

Bølgelengde: 658 nm/790 nm
Laserstyrke: Ingen farlig stråling sendes ut
(med sikkerhets-beskyttelse)

Power supply:

DC 9 V (DC In terminal)/
DC 7.2 V (Battery terminal)

Power consumption

(using included AC adaptor):
18 W (Unit only: 13 W)
Recharging 14 W

Battery pack CGR-H604 (lithium ion):

Voltage: 7.2 V
Capacity: 3000 mAh

Dimensions (excluding protrusions):

232 (W)×173.5 (D)×30.7* (H) mm
*24.6 mm at lowest point

Mass:

1210 g

■ Common

Operating temperature range:

+5 to +35 °C

Operating humidity range:

10–80 % RH (no condensation)

AC adaptor:

Power source: AC 100–240 V, 50/60 Hz

Power consumption: 38 W

DC output: 9 V, 2500 mA

Note

Specifications are subject to change without notice.

Mass and dimensions are approximate.

Power consumption in standby mode
(using included AC adaptor):

Main unit: 0.6 W

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:

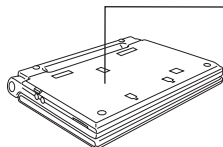
FOR Å REDUSERE FAREN FOR BRANN, ELEKTRISK STØT ELLER SKADER PÅ PRODUKTET, MÅ DETTE APPARATET IKKE UTSETTES FOR REGN, FUKTIGHET, VANDRÅPER ELLER VANNSPRUT. DET MÅ HELLER IKKE PLOSSERES GJENSTANDER FYLT MED VANN, SLIK SOM BLOMSTERVASER, OPPÅ APPARATET.

ADVARSEL!

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

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

DETTE APPARATET ER BEREGNET TIL BRUK UNDER MODERATE KLIMAFORHOLD.



(Bottom of product)

VAROITUS!

LAITTEEN KÄYTTÄMINEN MUULLA KUIN TÄSSÄ KÄYTTÖOHJEESSA MAINTULLA TAVALLA SAATTAÄ ALTISTAA KÄYTTÄJÄN TURVALLISUUSLUOKAN 1 YLITTÄVÄLLE NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE.

VAROITUS:

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

VAROITUS!

- ÄLÄ ASENNATA TAI LAITA TÄTÄ LAITETTA KABINETTITYYPPISEEN KIRJAKAAPPIIN TAI MUUHUN SULJETTUUN TILAAN, JOTTA TUULETUS ONNISTUISI. VARMISTA, ETTÄ VERHO TAI MIKÄÄN MUU MATERIAALI EI HUONONNNA 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.

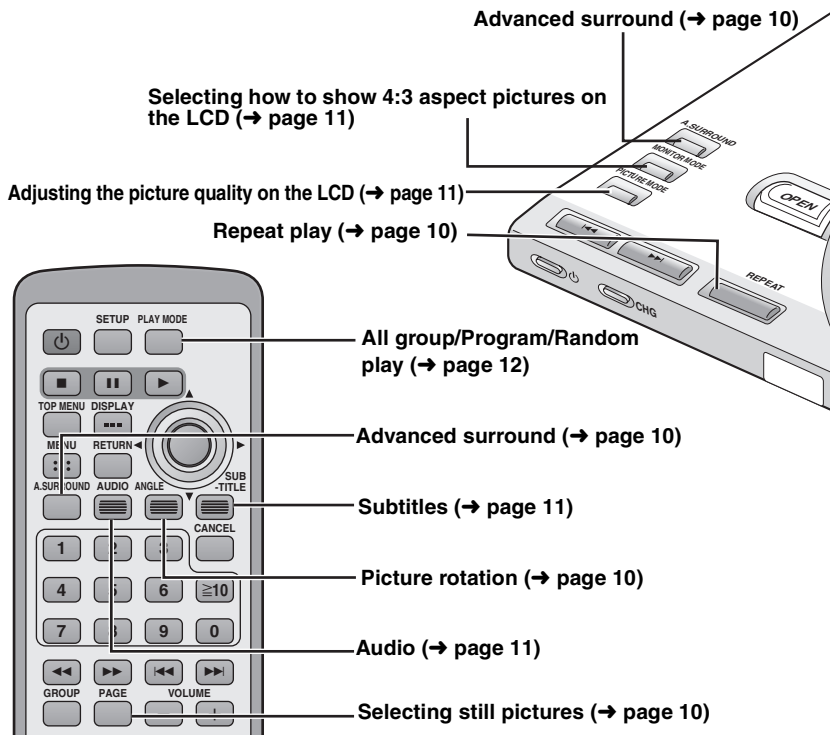
Laite tulee asettaa lähelle verkkopistorasiaa ja pistokkeen täytyy olla sellaisessa asennossa, että siihen on helppo tarttua ongelman sattuessa.

TÄMÄ LAITE ON TARKOITETTU KÄYTETTÄVÄKSI LEUDOSSA ILMASTOSSA.

CLASS 1
LASER PRODUCT

LUOKAN 1 LASERLAITE
KLASS 1 LASER APPARAT

Useful function guide



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

VARNING - SYNLIIG OCH OSYNLIIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRÄKTA EJ STRÅLEN.

ADVARSEL - SYNLIIG OG USYNLIIG LASERSTRÅLING VED ÅBNING, NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.

ADVARSEL - SYNLIIG OG USYNLIIG LASERSTRÅLING NÅR DEKSEL ÅPNES OG SIKKERHEDSLÅS BRYTES. UNNGÅ EKSPONERING FOR STRÅLEN.

VARO! AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTIINA 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.

注意 - 打开时及联锁消除时可见及不可见激光辐射。避免激光束照射。 RQLS0320

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