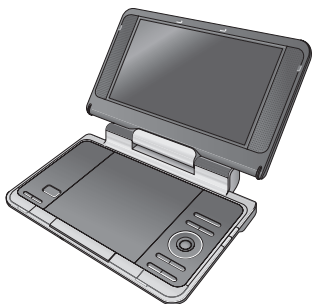




Panasonic®

Operating Instructions Portable DVD/CD Player

Model No. **DVD-LS80**
DVD-LS82

Dear customer

Thank you for purchasing this product.

For optimum performance and safety, please read these instructions carefully.

Before connecting, operating or adjusting this product, please read the instructions completely.

Please keep this manual for future reference.



MULTI-FORMAT PLAYBACK

See page 6 for details.

Region number

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

Example:



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

Unless otherwise indicated, illustrations in these operating instructions are of DVD-LS80.

Caution for AC Mains Lead

For your safety, please read the following text carefully. This appliance is supplied with a moulded three pin mains plug for your safety and convenience. A 5-ampere fuse is fitted in this plug.

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

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

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced. If you lose the fuse cover the plug must not be used until a replacement cover is obtained.

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

CAUTION!

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

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

If in any doubt please consult a qualified electrician.

IMPORTANT

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

Blue: Neutral, Brown: Live.

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

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

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

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

THIS PLUG IS NOT WATERPROOF—KEEP DRY.

Before use

Remove the connector cover.

How to replace the fuse

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

Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.

Figure A

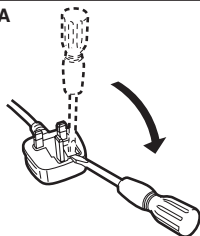
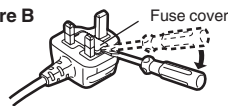


Figure B

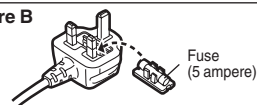


2. Replace the fuse and close or attach the fuse cover.

Figure A



Figure B



WARNING:

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR PRODUCT DAMAGE,

- DO NOT EXPOSE THIS APPARATUS TO RAIN, MOISTURE, DRIPPING OR SPLASHING AND THAT NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL BE PLACED ON THE APPARATUS.
- USE ONLY THE RECOMMENDED ACCESSORIES.
- DO NOT REMOVE THE COVER (OR BACK); THERE ARE NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The socket outlet shall be installed near the equipment and easily accessible.

The mains plug of the power supply cord shall remain readily operable.

To completely disconnect this apparatus from the AC Mains, disconnect the power supply cord plug from AC receptacle.

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.

Accessories



Use numbers indicated in parentheses when asking for replacement parts.

(Product numbers correct as of January 2007. These may be subject to change.)

- ☐ 1 **Audio/video cable** (K2KA6CB00003)
- ☐ 1 **AC adaptor** (RFEA216W)
- ☐ 1 **AC mains lead** (K2CT3CA00004)
 - For use with this unit only. Do not use it with other equipment.
 - Also, do not use cords for other equipment with this unit.
- ☐ 1 **Car DC Adaptor** (RFEC203M-Y)
- ☐ 1 **Headrest Mounting Bracket** (RXQ1405A)
- ☐ 1 **Rechargeable battery pack**

	Included	Optional
DVD-LS80	CGR-H711	CGR-H701
DVD-LS82	CGR-H702 or CGR-H712	CGR-H712

- Depending on the battery pack, playback time may differ. (→ page 9, Approximate recharging and play times)
- **DVD-LS80** CGR-H711 is not available as option. When purchasing a replacement, request one of the optional batteries listed above.

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.

Interested in purchasing an extended guarantee?

Please call 0870 240 6284 or visit our website www.panasonic.co.uk/guarantee.

THIS UNIT IS INTENDED FOR USE IN MODERATE CLIMATES.

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CAUTION

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

WARNING:

The driver must not operate this unit while the vehicle is moving.
Do not operate this unit where it can be viewed by the driver.
Driver operation or viewing of this unit while the vehicle is moving will cause distraction which may result in serious accident and personal injury or property damage.

To prevent damage

Avoid the following:

- Spraying flammable insecticides near the unit.
- Pressing the LCD.
- Touching the lens and other parts of the laser pickup.

Do not use the unit in the following places:

- Sandy places such as beaches.
- On top of cushions, sofas, or hot equipment such as amplifiers.

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

Precautions

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

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings.
Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Protect the AC mains lead from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 10) Only use attachments/accessories specified by the manufacturer.
- 11) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 12) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 13) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as AC mains lead or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



Precautions for Listening with the Headphones or Earphones

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

Batteries

1. Battery pack (Lithium ion battery pack)

- Use the specified unit to recharge the battery pack.
- Do not use the battery pack with equipment other than the specified unit.
- 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.

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.

2. Disposing of the batteries

Check and follow your local regulations before disposal.

CAUTION!

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

CAUTION!

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

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.

Product Identification Marking is located on the bottom of units.

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

"DTS" is a registered trademark of DTS, Inc. and "DTS 2.0" is a trademark of DTS, 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.

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



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

This product is protected by certain intellectual property rights of Microsoft Corporation and third parties. Use or distribution of such technology outside of this product is prohibited without a license from Microsoft or an authorized Microsoft subsidiary and third parties.

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.

-If you see this symbol-

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



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

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

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

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

For business users in the European Union

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

Information on Disposal in other Countries outside the European Union

This symbol is only valid in the European Union.

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

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

Discs that can be played

Commercial discs

Disc Logo	Indicated in these instructions by	Remarks
DVD-Video 	DVD-V	High quality movie and music discs
Video CD 	VCD	Music discs with video Including SVCD (Conforming to IEC62107)
CD 	CD	Music discs

■ Discs that cannot be played

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

Recorded disc (○: Available —: Not available)

Disc Logo	Recorded on a DVD recorder, etc.		Recorded on a personal computer, etc.			Necessity of finalize ^{#4}
	DVD-VR ^{#2}	DVD-V ^{#3}	WMA	MP3	JPEG	
DVD-RAM 	○	—	—	○	○	Not Necessary
DVD-R/RW 	○	○	—	○	○	Necessary
DVD-R DL 	○	○	—	—	—	Necessary
+R/+RW —	—	(○)	—	—	—	Necessary
+R DL —	—	(○)	—	—	—	Necessary
CD-R/RW^{#1} —	—	—	○	○	○	Necessary ^{#5}

● 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 7, Tips for making data discs).

^{#1} This unit can play CD-R/RW recorded with CD-DA or Video CD format. (WMA MP3 JPEG This unit also plays HighMAT discs.)

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

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

^{#3} Discs recorded on DVD recorders or DVD video cameras using DVD-Video Format.

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

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

^{#5} Closing the session will also work.

Tips for making data discs

Format	Disc	Extension	Reference
WMA	CD-R/RW	“.WMA” “.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	DVD-RAM DVD-R/RW CD-R/RW	“.MP3” “.mp3”	- Sampling frequency: DVD-RAM, DVD-R/RW : 11.02, 12, 22.05, 24, 44.1 and 48 kHz CD-R/RW : 8, 11.02, 12, 16, 22.05, 24, 32, 44.1 and 48 kHz - Compatible compression rate: between 32 kbps and 320 kbps - This unit is not compatible with ID3 tags.
JPEG	DVD-RAM DVD-R/RW CD-R/RW	“.JPG” “.jpg” “.JPEG” “.jpeg”	- JPEG files taken on a digital camera that conform to DCF Standard Version 1.0 are displayed. – Files that have been altered, edited or saved with computer picture editing software may not be displayed. - 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.

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

Naming folders and files on data discs

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

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

DVD-RAM

- Discs must conform to UDF 2.0.

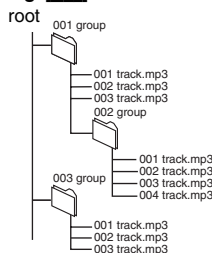
DVD-R/RW

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

CD-R/RW

- Discs must conform to ISO9660 level 1 or 2 (except for extended formats).
- This unit is compatible with multi-session but if there are a lot of sessions it takes more time for play to start. Keep the number of sessions to a minimum to avoid this.

e.g. **MP3**



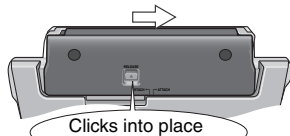
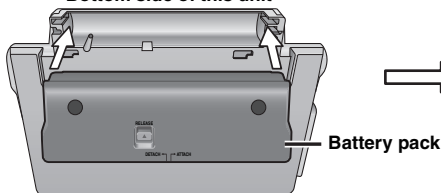
Preparations

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

1 Attaching the battery (When the unit is off)

The illustrations shown are of CGR-H711; however the steps for the battery included with DVD-LS82 (CGR-H702 or CGR-H712) or CGR-H701 (optional) are the same.

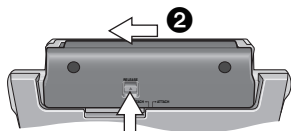
Bottom side of this unit



Check to make sure it is securely fastened.

Detaching

- Turn the unit off before detaching the battery pack.



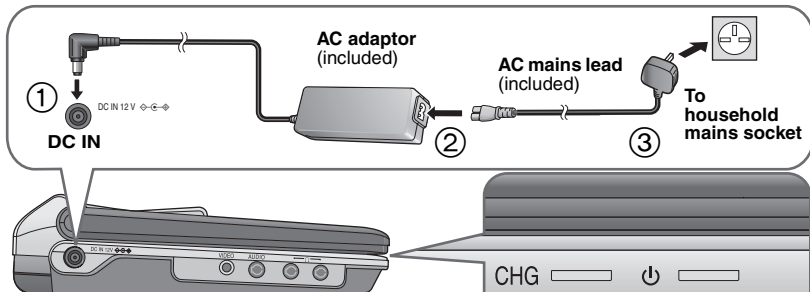
1 Press and hold

When not using for long periods of time

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

2 Recharging the battery

The battery is not charged at the time of purchase. Charge before initial use.

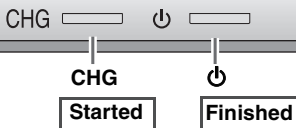


- You can also use this unit without charging while connecting the AC adaptor and the AC mains lead.
- You can also use this unit without charging while connecting Car DC Adaptor (→ page 19, Connecting the included Car DC Adaptor).

To conserve power

This unit consumes 0.4 W of power even when turned off. When the unit is not going to be used for a long time, disconnect the AC mains lead from the household mains socket.

The unit is in the standby condition (the [⏻] indicator lights) when the AC mains lead is connected. The primary circuit is always "live" as long as the AC adaptor is connected to an electrical outlet.



[⏻] goes out → lights*
[CHG] lights → goes out
* Only when recharged with the unit off.

Recharging time :
→ page 9, Approximate recharging and play times

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

Approximate recharging and play times (Hours)

Battery pack	Recharging (When the unit is off)	Play (at room temperature using headphones)			
		LCD brightness level			LCD Off
		-5	0	5	
CGR-H711 ^{#1}	4	6	3.5	2.5	8
CGR-H702 ^{#2} CGR-H712 ^{#2}	7	12	7	5	16
CGR-H701 (option)	4	5.5	3	2	7

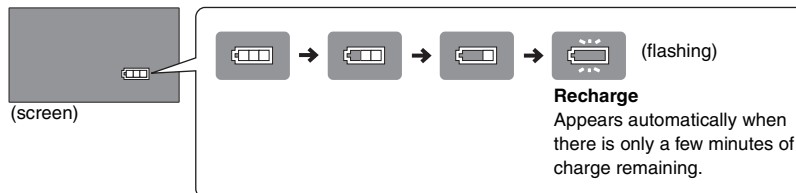
^{#1} included with **DVD-LS80** (not available as option)

^{#2} included with **DVD-LS82**

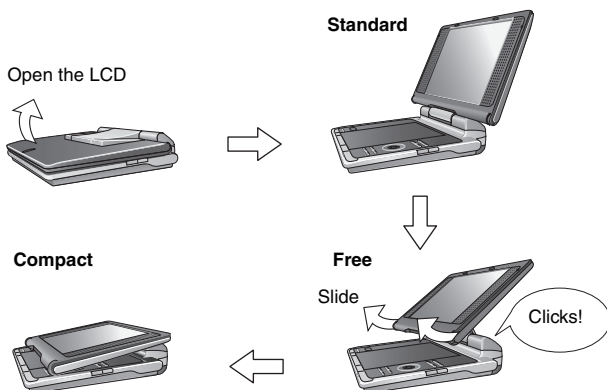
- The times indicated above may differ depending on use.
- To change the LCD brightness (→ page 12, When selecting "USER MODE").

Checking the remaining battery charge

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



③ Adjusting the LCD angle



- When moving the unit : Close the LCD. Don't hold by the LCD.
- Functions operated by buttons on the unit will not work when the LCD is closed.

Playing discs

1 Open the lid.

OPEN

Headphone terminals []
 φ 3.5 mm stereo mini jack

2 Insert a disc and close the lid.

Click into place

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

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

3 Press and hold.



The unit turns on and play begins.

- When "AUX" is displayed, press [AV SELECT]. (Watching video from other equipment → page 26)

4 Adjust the volume.



When using headphones, turn down the volume before connection.

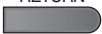
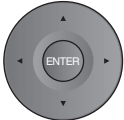
- To play audio (**MP3**) or picture (**JPEG**) on DVD-RAM with recorded titles (**DVD-VR**), select "Play as Data Disc" (→ page 23, Other Menu).
- While stopped, the unit automatically turns off once 15 minutes (after approximately 5 minutes when using the battery pack) have elapsed.
- Total title number may not be displayed properly on +R/+RW.
- If you are experiencing problems, refer to troubleshooting guide (→ page 28).

Note

- DISCS CONTINUE TO ROTATE WHILE MENUS ARE DISPLAYED. Press [■, -OFF] when you finish to preserve the unit's motor.

Operations

	Turn unit on/play	When the unit is off: Press and hold and the power comes on and play begins. When the unit is on: Press and play begins.
	Pause	Press [▶, ON] to restart play.
	Stop	The position is memorized when "Press PLAY to resume play" appears on the screen. • Press [▶, ON] to resume. (Resume play) Opening the disc lid or pressing [■, -OFF] while "Press PLAY to resume play" appears on the screen cancels the memorized position.
	Turn unit off	Press and hold until "OFF" is displayed.

	Skip	Press [◀◀ , ▶▶]. DVD-VR Can also skip to the markers.
	Search	Press and hold [◀◀ , ▶▶] (up to 5 steps).
	Slow play	Press and hold [◀◀ , ▶▶] (up to 5 steps) while paused. Press [▶ , ON] to return to normal play. VCD [▶▶] only
	Top menu	DVD-V
	Playing programs	DVD-VR (→ page 18)
	Playback menu	WMA MP3 JPEG (→ page 16)
	Menu	DVD-V
	Playing playlists	DVD-VR (→ page 18)
	Navigation menu	WMA MP3 JPEG (→ page 16)
	Return	Returns to the previous screen. VCD (with playback control) Returns to the menu.
	Menu operation	Press [▲ ▼ ◀ ▶] to select an item and press [ENTER] to confirm.
	Number Select	VCD (with playback control) ① While the disc menu is displayed, press [DISPLAY] to display On-Screen Menus. ② Press [▲ ▼] to select "Number Select". ③ Press [▶] then [▲ ▼] to enter number. • Press and hold [▲ ▼] to alter faster. ④ Press [ENTER].
	Frame-by-frame	DVD-VR DVD-V VCD While paused, press [◀ ▶]. VCD [▶] only
	Group skip	WMA MP3 JPEG Press [▲ ▼]. • Does not work while paused.

Useful functions

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



LCD-SIZE

MONITOR NORMAL: Normal

MONITOR FULL: Stretched horizontally

MONITOR OFF: No picture

- If you are not using the LCD on this unit, select "MONITOR OFF" to conserve power. (The [ON] indicator flashes)

Press to change. • The LCD turns off automatically if you close it.

Selecting the picture quality on the LCD



BRIGHT-LCD

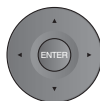
DAYLIGHT: Displays the picture a bit brighter.

MOONLIGHT: Displays the picture a bit darker.

USER MODE: → below

Press to change.

■ When selecting "USER MODE"



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

BRIGHT: Adjusts the brightness of the picture (−5 to 5)

COLOUR: Adjusts the shade of the picture's color (−5 to 5)

- To exit the screen : Press [RETURN].

Repeat play (Only when the elapsed play time can be displayed.)

JPEG : you can use even if there is no elapsed time display.)



REPEAT

Press several times to select the content to be repeated.



To repeat a specified section (A-B Repeat)

Only when the elapsed play time can be displayed.

Except **DVD-VR** (still picture part) and **JPEG**

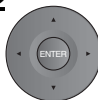
1



DISPLAY

During play, press once.

2



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

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

③ Press [▶] then [▲▼] to select "A-B Repeat".

④ Press [ENTER] at the starting and ending points.

- Press [ENTER] again to cancel.

- To exit the screen : Press [RETURN].

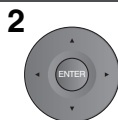


Reviewing titles/programs to play (Advanced Disc Review)

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

1

Press once.



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

Reviews each title/program.

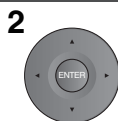


- ⑤ Press [**▶**, **ON**] when you find a title/program to play.
 - You can also review each 10 minutes. Select "Interval Mode" (→ page 24, "Advanced Disc Review" in "Disc" tab).
 - This may not work depending on the play position.
 - **DVD-VR** Does not work:
 - with still picture part.
 - when playing a playlist.
 - To exit the screen : Press [**RETURN**].

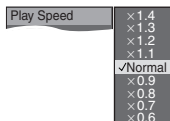
Changing play speed DVD-VR DVD-V

1

During play, press once.



- ① Press [**▲▼**] to select "Other Settings".
- ② Press [**▶**] then [**▲▼**] to select "Play Speed".
- ③ Press [**ENTER**] and [**▲▼**] to select "Normal" or "×0.6" to "×1.4" (in 0.1 units).
- ④ Press [**ENTER**].



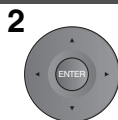
- Press [**▶**, **ON**] to return to normal play.
- After you change the speed, H.Bass (→ page 15), Advanced Surround (→ below) and Sound Enhancement (→ page 23, Audio Menu) do not work.
- This may not work depending on the disc's recording.
- To exit the screen : Press [**RETURN**].

Enjoying virtual surround (Advanced Surround)

Motion pictures with 2 or more channels

1

Press once.



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

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

- When using headphones, press to select "HP 1 Natural" or "HP 2 Enhanced".
- When using discs recorded with surround sound, sound seems to come from speakers on either side of you.
- Optimum seating position is 3 to 4 times the distance between the front left and right speakers or the width of the television if using the television's speakers.
- This does not work when H.Bass (→ page 15) is on.
- Do not use in combination with surround effects on other equipment.
- To exit the screen: Press [**RETURN**].

Useful functions

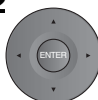
Changing soundtracks Motion pictures

1



Press once.

2



- ① Press [**▲▼**] to select "Audio".
- ② Press [**▶**] then [**▲▼**] to select the soundtrack.
- ③ Press [**ENTER**].

DVD-VR VCD

"L", "R" or "L R" can be selected.

VCD

"L", "R", "L R" or "L + R" can be selected.

DVD-V (Karaoke discs)

- ① Press [**▲▼**] to select "Vocal".
- ② Press [**▶**] then [**▲▼**] to select "On" or "Off" for vocals. Read the disc's instructions for details.
- To exit the screen: Press [**RETURN**].

Signal type/data

LPCM/□□ Digital/DTS/MPEG: Signal type
 kHz (Sampling frequency)/bit/ch (Number of channels)
 Example: 3/2 .1ch

- 1: Low frequency effect (not displayed if there is no signal)
- 0: No surround
- 1: Mono surround
- 2: Stereo surround (left/right)
- 1: Center
- 2: Front left+ Front right
- 3: Front left+ Front right+ Center



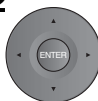
Changing subtitles Discs with subtitles

1



Press once.

2

**DVD-VR DVD-V VCD**

- ① Press [**▲▼**] to select "Subtitle".
- ② Press [**▶**] then [**▲▼**] to select "Off" or "On" and the subtitle language.
- ③ Press [**ENTER**].

- On + R/+ RW, a subtitle number may be shown for subtitles that are not displayed.
- **DVD-VR** (with subtitle on/off information)
 - On or Off only can be selected.
 - Subtitle on/off information cannot be recorded using Panasonic DVD Recorders.
- To exit the screen: Press [**RETURN**].

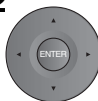
Angle select **DVD-V** with multiple angles /Still picture rotation **JPEG**

1



Press once.

2



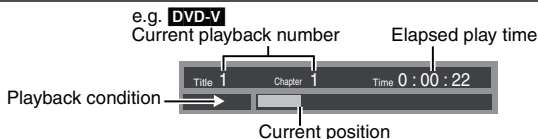
- ① Press [**▲▼**] to select "Angle" or "Rotate Picture".
- ② Press [**▶**] then [**▲▼**] to select the angle or rotate the still picture.
- ③ Press [**ENTER**].
- To exit the screen: Press [**RETURN**].

e.g. **DVD-V**

Displaying current playback condition (Quick OSD)

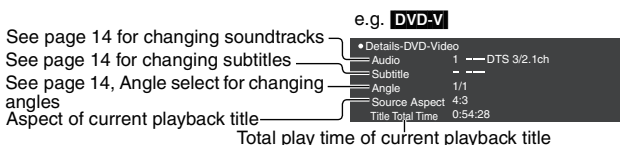
■ Basics

DISPLAY
Press twice.



■ Details

DISPLAY
Press three times.

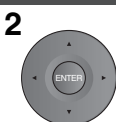


To exit the screen: Press [RETURN].

Enjoying higher quality audio and video

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

1
DISPLAY
Press once.



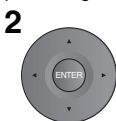
- Press [▲▼] to select "Other Settings".
 - Press [▶] then [▲▼] to select "Audio Menu".
 - Press [▶] then [▲▼] to select "H.Bass".
 - Press [▶] then [▲▼] to select "On" or "Off".
 - Press [ENTER].
- This is effective on 5.1 channel DVD-Video and DVD-VR discs. This is also effective on some portions of 2 channel discs as well.
 - If the sound is distorted or there is noise, set to "Off".
 - To exit the screen: Press [RETURN].



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

Cinema1: Mellows images and enhances detail in dark scenes.
Cinema2: Sharpens images and enhances detail in dark scenes.

1
DISPLAY
Press once.



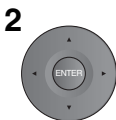
- Press [▲▼] to select "Other Settings".
 - Press [▶] then [▲▼] to select "Picture Menu".
 - Press [▶] to select "Picture Mode".
 - Press [▶] then [▲▼] to select "Cinema1" or "Cinema2".
 - Press [ENTER].
- To exit the screen: Press [RETURN].



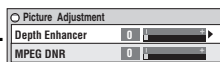
Reducing noise in pictures (Depth Enhancer/MPEG DNR)

Depth Enhancer: Reduces the rough noise in the background to give a greater feeling of depth.
MPEG DNR: Smooths block noise and reduces the smudging that appears around contrasting sections of the picture.

1
DISPLAY
Press once.



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



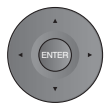
The above indicated features may not work depending on the disc's recording.

Playing audio (WMA/MP3) and picture (JPEG) discs

WMA MP3 JPEG

- Select "Play as Data Disc" (→ page 23, Other Menu) in the following cases:
 - To play HighMAT discs without using the HighMAT function
 - To play audio (MP3) or picture (JPEG) on DVD-RAM with recorded titles (DVD-VR)
- To return to playing titles (DVD-VR), select "Play as DVD-VR" in "Other Menu" (→ page 23).

Playing items in order (Playback Menu)



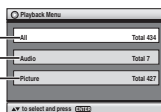
While the menu is displayed

Press [▲▼] to select "All", "Audio" or "Picture" and press [ENTER].

- To display/exit the screen:

Press [TOP MENU].

All content
WMA/MP3
JPEG



Playing from the selected item (Navigation Menu)

1

MENU

Press once.

2

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

Group and content number currently playing

Navigation Menu

002 My favorite! 001 Japanese 001 Lady Starfish

Performance

- 001 My favorite!
- 002 My favorite!
- 003 Brazilian
- 004 Chinese
- 005 Czech
- 006 Hungarian
- 007 Japanese
- 008 Mexican
- 009 Philippine
- 010 Swedish
- 011 Piano
- 012 Vocal

Group 0010022 Content 0010004

Group Content

Number currently selected

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

Using the submenu

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

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

Submenu

✓Multi	Groups and content
List	Content only
Tree	Groups only
Thumbnail	Thumbnail images JPEG
Next group	To the next group
Previous group	To the previous group
✓All	All content
Audio	WMA/MP3 only
Picture	JPEG only
✓Help display	To switch between guide messages and the playback condition indicator
Find	To search by content or group title (→ page 17)

■ Searching by a content or group title

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

1 Select "Find" and press [ENTER]. (→ page 16)

2 Press [▲▼] to select a character and press [ENTER].



- Repeat to enter another character.

- Lower case is also searched.

- Press and hold [◀▶] to skip between A, E, I, O and U.

- Press [◀] to erase a character.

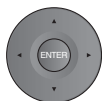
- Erase the asterisk (*) to search for titles starting with that character.

3 Press [▶] to select "Find" and press [ENTER]. The search result screen appears.

4 Press [▲▼] to select the content or group and press [ENTER].

Playing HighMAT™ discs

WMA MP3 JPEG



While the menu is displayed

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



Menu:

Takes you to the next menu which shows playlists or another menu.



Playlist:

Play starts.

- To return to the menu screen, press [TOP MENU] then press [RETURN] several times.

- To change the menu background, press [DISPLAY]. The background changes to the one recorded on the disc.

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

Selecting from the list

1. Press [MENU].

2. Press [◀] then [▲▼] to switch among "Playlist", "Group" and "Content" lists.

3. Press [▶] then [▲▼] to select an item and press [ENTER].

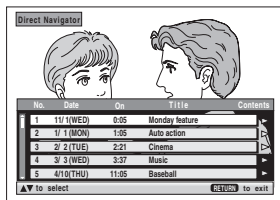
- To exit the screen: Press [MENU].



Playing programs/playlists DVD-VR

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

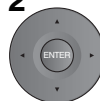
1 To play programs:



To play playlists:



2



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

- Only when the disc contains a playlist.

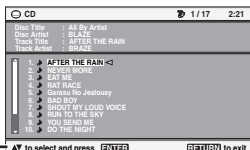
- Press [**▶**] to show the contents of the program (Only when playing the program).
- To exit the screen: Press [**RETURN**].

Playing CD using menus CD

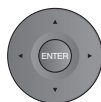
Titles appear with CD text playback.

1

e.g. CD text



2



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

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

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

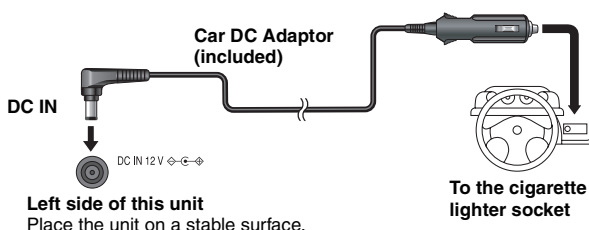
Enjoying in a car

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

Connecting the included Car DC Adaptor

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

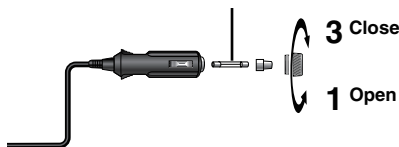
- Connect to the cigarette lighter socket of a vehicle that has a 12 V battery. It is not compatible with a vehicle that has a 24 V battery.
- This is a special negative grounded Car DC Adaptor. Using this Car DC Adaptor with a plus grounded car can cause malfunction and lead to fire.



Replacing the fuse

Replace only with the specified 125 V/250 V, 2.5 A fuse. Use of any other type can cause fire.

2 Replace the fuse. (125 V/250 V, 2.5 A type)



Cautions

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



(Left side of this unit)

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

Enjoying in a car

Enjoying video in the back seat with the Headrest Mounting Bracket

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

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

- **Do not attach or detach while driving, and do not attach in the following locations, otherwise it may result in injury or traffic accidents:**

- anywhere other than the back of the seat
- in a location that interferes with the driver's view or operation of the car
- in a location that interferes with the operation of an airbag
- in a location that interferes with the driving instruments

- **Make sure that the bracket belt is securely fastened, and check the lock on the unit.**

In the event of an accident, sudden acceleration, or braking, the unit could become loose and cause injury.

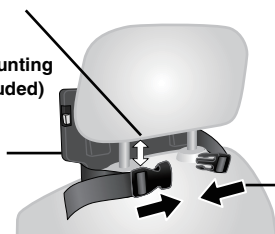
1 Attaching the headrest bracket to the front seat.

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

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

Headrest Mounting Bracket (included)

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



Side view

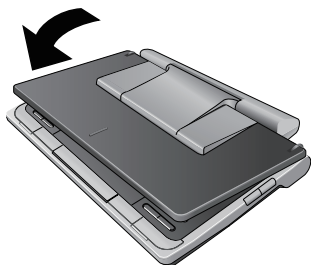
DO DO NOT



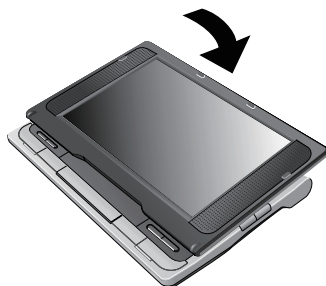
If this space is larger than 3 cm the unit could become loose and cause injury in the event of an accident etc.

2 Adjusting the monitor.

- ① Fold the monitor down towards the front of the unit.



- ② Rotate the monitor backwards so the screen is facing out.

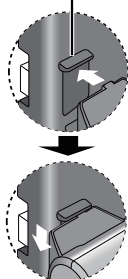


3 Attaching the unit to the bracket.

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

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

Line up the protruding sections here.



When correctly attached, you will hear a locking sound.

click!

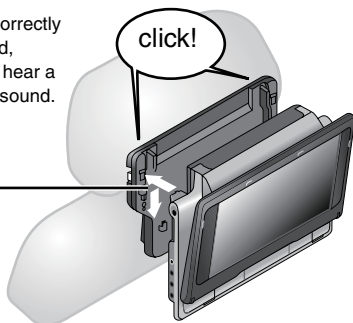
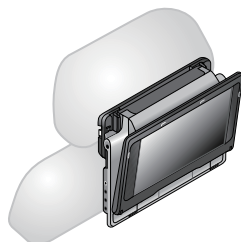
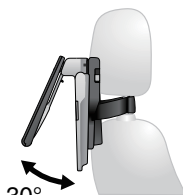


Diagram of attached bracket



Use the monitor in the open position as shown in the illustration to the right to prevent abnormal audio or damage resulting from vibrations in the car.

The angle of the monitor can be adjusted up to about 30°.

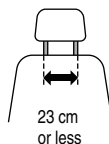


30°

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

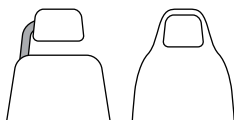
- Depending on the type of headrest, you may not be able to attach the bracket.

DO



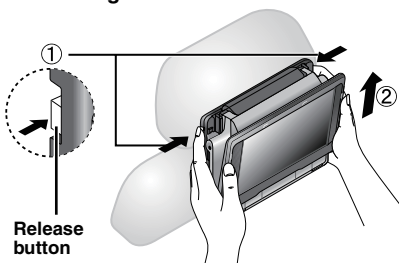
23 cm
or less

DO NOT



In the event of an accident etc., the unit could become loose and cause injury.

Releasing the unit from the bracket



Release button

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

Using On-Screen Menus

1



Press once.

2



① Press [**▲▼**] to select the menu.

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

Repeat step ② if necessary.

- Items shown differ depending on the type of software.
- Press [**◀**] to go to the previous menu.
- If the setting does not change, press [**ENTER**].
- To exit the screen: Press [**RETURN**].

Main menus

Program, Group, Title Chapter, Track, Playlist Content	To start from a specific item • Press [▲▼] to select and press [ENTER]. • Press and hold [▲▼] to alter faster.
Time	To skip incrementally or decrementally (Time Slip for play only) (Except + R/+ RW) 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 change remaining/elapsed time display
Audio	(→ page 14, Changing soundtracks) To display the current bitrate or sampling frequency
Number Select VCD (with playback control)	To enter number • Press and hold [▲▼] to alter faster.
Thumbnail	To show thumbnail images
Subtitle	(→ page 14, Changing subtitles)
Marker (VR)	To recall a marker recorded on DVD recorders
Angle	(→ page 14, Angle select)
Rotate Picture	(→ page 14, Still picture rotation)
Slideshow	To turn on/off slideshow To change the slideshow timing ("1 Fast" to "5 Slow") • When using Slideshow, Skip/Rotate picture may not work correctly depending on the play position.
Other Settings	(→ See below)

Other Settings

Play Speed	(→ page 13, Changing play speed)
-------------------	----------------------------------

Play Menu (Only when the elapsed play time can be displayed.)

JPEG: Repeat function can be used.)

Repeat	(→ page 12, Repeat play)
A-B Repeat	(→ page 12)
Advanced Disc Review	(→ page 13)

Picture Menu

Picture Mode	(→ page 15, Cinema1/Cinema2/Depth Enhancer/MPEG DNR)
---------------------	--

Using On-Screen Menus

114

5

sn

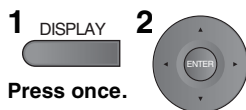
len

7 M

Changing the player settings

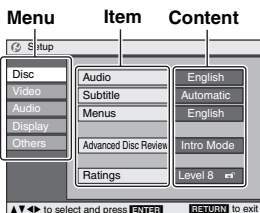
- Referring to pages 24 to 25, change as required.
- Underlined items are the factory presets.

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



Press once.

- Press [**▲▼**] to select "Other Settings".
- Press [**▶**] then [**▲▼**] to select "Other Menu".
- Press [**▶**] then [**▲▼**] to select "Setup".
- Press [**ENTER**].



- Press [**▲▼◀▶**] to select the menu, item, content and press [**ENTER**].
- To enter number: press [**▲▼**] to select and Press [**ENTER**].
- To return to the previous screen: Press [**RETURN**].
- To exit the screen: Press [**RETURN**].

"Disc" tab

Audio	- English - Other*****^{#3}	Original^{#1}	Language Options
Subtitle	- Automatic^{#2} - Other*****^{#3}	English	- French - Italian - Polish - German - Spanish - Swedish - Dutch
Menus	- English - Other*****^{#3}		
Advanced Disc Review Select how to review (→ page 13).	- Intro Mode: Reviews each title/program. - Interval Mode: Reviews each 10 minutes.		
Ratings Set a ratings level to limit DVD-Video play. Follow the on-screen instructions.	Setting ratings (When level 8 is selected) <u>8 No Limit</u> 1 to 7: To prohibit play of DVD-Video with corresponding ratings recorded on them. 0 Lock All: To prevent play of discs without ratings levels. When setting a ratings level, a password screen is shown. Follow the on-screen instructions. Do not forget your password. A message screen will be shown if a DVD-Video exceeding the ratings level is inserted in the unit. Follow the on-screen instructions.		

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

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

^{#3} Input a code number referring to the table on page 25.

"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 Use the television's screen modes to change the way the picture is shown.	
--	--	--

“Video” tab

Still Mode Specify the type of picture shown when paused.	● <u>Automatic</u> ● 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.	● <u>PAL60</u>: When connected to a PAL television ● NTSC: When connected to an NTSC television

“Audio” tab

Dynamic Range Compression	● <u>Off</u> ● On: Adjusts for clarity even when the volume is low through compressing the range of the lowest sound level and the highest sound level. Convenient for late night viewing. (Only works with Dolby Digital)
----------------------------------	---

“Display” tab

Menu Language	● <u>English</u> ● Français ● Deutsch ● Italiano ● Español ● Polski ● Svenska ● Nederlands
On-Screen Messages	● <u>On</u> ● Off

“Others” tab

Re-initialise Setting This returns all values in the Setup menus to the default settings.	● Yes: The password screen is shown if “Ratings” (→ page 24) is set. Please enter the same password and press [ENTER]. When “Initialised” appears on the screen, wait for about 10 seconds. Press [ENTER] and turn the unit off and on again. ● <u>No</u>
---	--

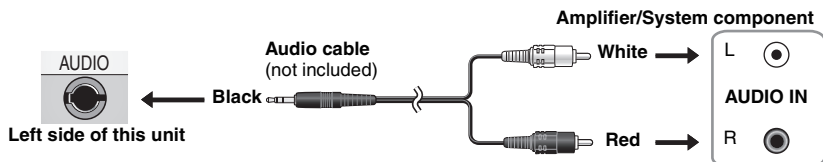
Language code list

Abkhazian: 6566	Catalan: 6765	Hausa: 7265	Lithuanian: 7684	Rhaeto-Romance: 8277	Tajik: 8471
Afar: 6565	Chinese: 9072	Hebrew: 7387	Macedonian: 7775	Romanian: 8279	Tamil: 8465
Afrikaans: 6570	Corsican: 6779	Hindi: 7273	Malagasy: 7771	Russian: 8285	Tatar: 8484
Albanian: 8381	Croatian: 7282	Hungarian: 7285	Malay: 7783	Samoa: 8377	Telugu: 8469
Ameharic: 6577	Czech: 6783	Icelandic: 7383	Malayalam: 7776	Sanskrit: 8365	Thai: 8472
Arabic: 6582	Danish: 6865	Indonesian: 7378	Maltese: 7784	Scots Gaelic: 8376	Tibetan: 6679
Armenian: 7289	Dutch: 7876	Interlingua: 7365	Maori: 7773	Serbian: 7168	Tigrinya: 8473
Assamese: 6583	English: 6978	Irish: 7165	Marathi: 7782	Serbo-Croatian: 8382	Tonga: 8479
Aymara: 6589	Esperanto: 6979	Italian: 7384	Moldavian: 7779	Sinhalese: 8373	Turkish: 8482
Azerbaijani: 6590	Estonian: 6984	Japanese: 7465	Mongolian: 7778	Slovak: 8375	Turkmen: 8475
Bashkir: 6655	Faroese: 7079	Javanese: 7487	Nauru: 7865	Slovenian: 8376	Tw: 8487
Basque: 6985	Fiji: 7074	Kannada: 7578	Nepali: 7869	Shona: 8378	Ukrainian: 8575
Bengali, Bangla: 6678	Finnish: 7073	Kashmiri: 7583	Norwegian: 7879	Sindhi: 8368	Urdu: 8582
Bhutan: 6890	French: 7082	Kazakh: 7575	Oriya: 7982	Singhalese: 8373	Uzbek: 8590
Bihari: 6672	German: 6869	Kirghiz: 7589	Pashto, Pushto: 8083	Slovak: 8375	Vietnamese: 8673
Breton: 6682	Galician: 7176	Kurdish: 7585	Persian: 7065	Slovenian: 8376	Volapük: 8679
Bulgarian: 6671	Georgian: 7565	Laotian: 7679	Polish: 8076	Somali: 8379	Welsh: 6789
Burmese: 7789	Greek: 6976	Latin: 7665	Portuguese: 8084	Spanish: 6983	Wolof: 8779
Byelorussian: 6669	Greenlandic: 7576	Latvian, Lettish: 7686	Punjabi: 8065	Sundanese: 8385	Xhosa: 8872
Cambodian: 7577	Guarani: 7178	Lingala: 7678	Quechua: 8185	Swahili: 8387	Yiddish: 7473
	Gujarati: 7185			Swedish: 8386	Yoruba: 8979
				Tagalog: 8476	Zulu: 9085

Using this unit with other equipment

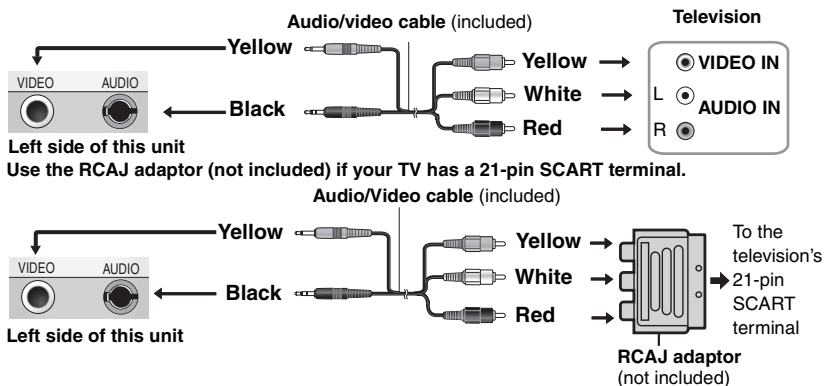
Turn off all equipment before connecting and read the appropriate operating instructions.

Enjoying stereo audio



Enjoying with a television

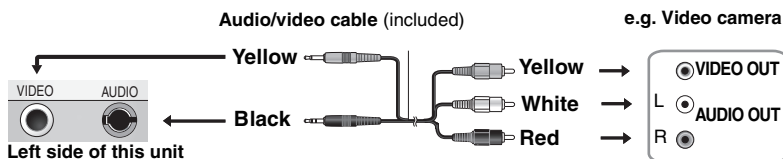
Connect the video output from this unit directly to the television.



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

Watching video from other equipment

1 Connect the equipment to this unit.



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

"AUX" lights on the unit's display.

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

Frequently asked questions

Reference pages are shown in parentheses.

Can I play a DVD-Video bought in another country?	You can play if the region number includes "2" or "ALL". Check the disc jacket.
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 included Car DC Adaptor for power. Damage may occur if you do not use the specified car adaptor. (19) • You can enjoy video in the back seat with the included Headrest Mounting Bracket. (20)
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 peripheral equipment.

Maintenance

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

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

Maintenance of the lens

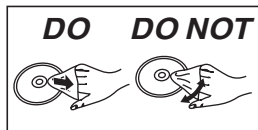
- Remove dust carefully with an air blower for camera lenses (optional).
- Recommended product:
Lens cleaner kit (SZZP1038C)
(Available from Panasonic dealers.)
- You cannot use a CD type lens cleaner.
- Be careful not to touch the lens with your fingers.

To clean discs

- Wipe with a damp cloth and then wipe dry.

Disc handling precautions

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



Troubleshooting guide

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

The following do not indicate malfunction.

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

Power

No power	• Check connections to the AC adaptor or battery pack. (8) • The unit has protection circuitry that is activated if it becomes too hot or too cold. The unit will not work if this occurs. Use the unit between 5 °C and 35 °C.
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.
Cannot charge or the [CHG] indicator fails to light.	• 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. (8)
Play time dramatically reduced after recharging.	• The battery pack has reached the end of its service life (It can be recharged about 300 times).

No operation

No response when any buttons pressed.	• This unit cannot play discs other than the ones listed in these operating instructions. (6) • The unit may not be operating properly due to lightning, static electricity or some other external factor. Turn the unit off and then back to ON. Alternatively, turn the unit off, disconnect the power source (AC or battery pack), and then reconnect it. • Condensation has formed: Wait 1 to 2 hours for it to evaporate. • Please insert the disc correctly. (10)
You have forgotten your ratings password.	• While stopped, press and hold [◀◀] and [] on the unit and then also press and hold [▶, ON] on the unit until "Initialised" disappears from the screen. Turn the unit off and on again. All settings will return to the default values.
No picture or sound	• Check that the disc has something recorded on it.

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.
Menu doesn't appear. [VCD] with playback control	• Press [■, -OFF] twice and then press [▶, ON].
Subtitle position is wrong.	• Adjust the position. ("Subtitle Position" in Display Menu) (23)
No subtitles	• Display the subtitles. (14)
In A-B repeat, point B is automatically set.	• If you have set only the starting point (point A), the end of an item becomes point B when it is reached.
Play doesn't start.	• This unit may not play WMA that contains still picture data. • If a disc contains CD-DA and other formats, proper playback may not be possible.

Picture incorrect

Picture distorted.	• There may be some video distortion during search, but this is normal.
No picture on the LCD.	• Check connections. (8) • Select a LCD-SIZE other than "MONITOR OFF" (No picture). (12, Selecting how to show 4:3 aspect pictures on the LCD).
The LCD is dark.	• Select "DAYLIGHT" or adjust the brightness. (12)
LCD pixels turn black or radiate different colors.	• 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.
Picture doesn't appear on the television (or the size of the picture seems wrong).	• Check connections. (26) • Check that the television is on. • Check that the input mode on the television is correct. • Check the settings in "Video—TV Aspect". (24) • Turn off the zooming feature on your television if you are using Zoom. (23) • Ensure that the unit is connected directly to the television, and is not connected through a video cassette recorder. (26) • Use the television to change the aspect. • Adjust "Just Fit Zoom" in Display Menu. (23)
Menu not displayed correctly.	• Restore the zoom ratio to $\times 1.00$. (23) • Set "Subtitle Position" in Display Menu to "0". (23)
Auto zoom function does not work well.	• Turn off the zooming feature on your television. • Use the other preset aspect ratios or manual adjustment. (23) • Zoom function may not work well, especially in dark scenes and may not work depending on the type of disc.

Sound incorrect

Sound distorted.	• Select "Off" in "Advanced Surround". (13) • Move unit away from mobile phones. • Noise may occur when playing WMA files.
Effects do not work.	• Some audio effects do not work or have less effect with some discs. • H.Bass, Advanced Surround and Sound Enhancement do not work if you have changed the play speed.
No sound from the unit's speaker.	• The speaker is off if the LCD is closed or headphones are connected. • Turn up the volume. (10)
No sound from other speakers.	• Check all connections and settings. (26)
No sound when you change the play speed.	• There may be a pause in sound. This is not a malfunction.

Troubleshooting guide

Displays

“  ”	• The operation is prohibited by the unit or disc.
No On-Screen display.	• Select “On” for “On-Screen Messages” in “Display” tab. (25)
“Check the disc.” “U11”	• Clean the disc. (27) • You inserted a disc that has not been finalized. (6)
“  ERROR 01”	• A problem has occurred with the battery pack. Consult your dealer.
“  ERROR 02”	• The battery pack has been recharging for 20 hours but has failed to recharge for some reason. Recharge again.
“  ERROR 03”	• You are recharging in a location that is too hot or too cold. Recharge at normal temperature (+5 to +35 °C).
“H  ”   stands for a number.	• Trouble has occurred. The number appearing after “H” depends on the problem. Turn the unit off and on again. Alternatively, turn the unit off, disconnect the power source (AC or battery pack), reconnect the power and turn the unit on again. If the service numbers fail to clear, note the service numbers and consult your dealer.
“Cannot display group xx, content xx”	• You are trying to play incompatible groups or content. (7)

[>] and [CHG] indicators

The [ >] indicator flashes rapidly.	• The unit has malfunctioned. Consult your dealer.
The [ >] indicator flashes slowly.	• The unit is on and the LCD is closed or the LCD-SIZE is set to “MONITOR OFF” (No picture). Turn the unit off when you have finished.
The [CHG] indicator flashes rapidly.	• There is a problem with the battery pack. Turn the unit on and check the message on the LCD. (above)
The [CHG] indicator flashes slowly.	• Battery pack charge is low. The unit will turn off automatically after a few minutes.

Specifications

Operating temperature range: +5 to +35 °C

Operating humidity range: 5 to 85 % RH (no condensation)

Discs played (8 cm or 12 cm):

- (1) DVD (DVD-Video)
- (2) DVD-RAM (DVD-VR^{*7}, JPEG^{*4, 5, 6}, MP3^{*2, 5})
- (3) DVD-R (DVD-Video, DVD-VR^{*7}, JPEG^{*4, 5, 6}, MP3^{*2, 5})
- (4) DVD-R DL (DVD-Video, DVD-VR^{*7})
- (5) DVD-RW (DVD-Video, DVD-VR^{*7}, JPEG^{*4, 5, 6}, MP3^{*2, 5})
- (6) +R/RW (Video)
- (7) +R DL (Video)
- (8) CD, CD-R/RW [CD-DA, Video-CD, SVCD^{*1}, MP3^{*2, 5}, WMA^{*3, 5}, JPEG^{*4, 5, 6}, HighMAT Level 2 (Audio and Image)]

Signal system: PAL/PAL 60 (NTSC) selectable

LCD screen: 8.5" α-Si, TFT wide-screen LCD

Composite-video output/input:

- Output/input level: 1 Vp-p (75 Ω)
 Output/input terminal: φ 3.5 mm mini jack
 Number of terminals: 1 system
 (output/input selectable)

Audio output/input:

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

Audio performance:

- (1) Frequency response:
 - DVD (linear audio): 4 Hz to 22 kHz (48 kHz sampling)
4 Hz to 44 kHz (96 kHz sampling)
 - CD audio: 4 Hz to 20 kHz
- (2) S/N ratio:
 - CD audio: 115 dB
- (3) Dynamic range:
 - DVD (linear audio): 91 dB
 - CD audio: 92 dB
- (4) Total harmonic distortion:
 - CD audio: 0.01 %

Headphone output:

- Output: φ 3.5 mm stereo mini jack
 Number of terminals: 2 systems

Pickup:

- Wave length: 662 nm/785 nm (DVD/CD)
 Laser power: CLASS 1M/CLASS 1M (DVD/CD)

Power supply: DC 12 V (DC IN terminal)/
DC 7.2 V (Exclusive battery terminal)

Power consumption (using included AC adaptor):
14 W (Unit only: 12 W)

Power consumption in Standby mode

(using included AC adaptor):

approx. 0.4 W

Power consumption in Recharge mode

(using included AC adaptor):

12 W

AC adaptor:

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

Power consumption: 22 W

DC output: 12 V, 1.3 A

Car DC Adaptor:

DC output: 12 V, 1.5 A

(Vehicle with 12 V battery only)

Battery pack (lithium ion)

DVD-LS80 CGR-H711 (included):

Voltage: 7.2 V

Capacity: 2250 mAh

DVD-LS82 CGR-H702 or CGR-H712 (included):

Voltage: 7.2 V

Capacity: 4700mAh

CGR-H702: 4700mAh

CGR-H712: 4500mAh

Dimensions (W×D×H)

(excluding protrusions and battery):

242.6 mm×173.5 mm×46.0 mm

*23.9 mm at lowest point

[D=173.5 mm including battery]

[H=46.6 mm including battery]

[D=179.3 mm including battery]

[H=51.5 mm including battery]

DVD-LS80

DVD-LS82

Mass

(including battery):

DVD-LS80 approximately 1032 g

DVD-LS82 approximately 1120 g

(without battery):

approximately 890 g

Note

Specifications are subject to change without notice.

*1 Conforming to IEC62107

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

*3 Windows Media Audio Ver.9.0 L3

*4 Not compatible with Multiple Bit Rate (MBR)

*5 Exif Ver 2.1 JPEG Baseline files

Picture resolution: between 160×120 and

6144×4096 pixels (Sub sampling is 4:0:0,

4:2:0, 4:2:2 or 4:4:4)

*6 The total combined maximum number of recognizable audio and picture contents and groups: 4000 audio and picture contents and 400 groups.

*7 Extremely long and slender pictures may not be displayed.

*8 CPRM doesn't cope with it.

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CAUTION - CLASS 1M VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS.
IEC60825-1 +A2/Class 1M.

WARNING - KLASS 1M SYNLIIG OG OSYNLIIG LASERSTRÅLING
NÅR DENNA DEL ÅR ÖPPNAD OCH SPÄRREN ÅR URKOPPLAD.
BETRÄKTA EJJ STRÅLEN DIREKT GENOM OPTISKT INSTRUMENT.

FORSIGTIG - SYNLIIG OG USYNLIIG LASERSTRÅLING KLASSE 1M.
NÅR LÅGET ER ÅBENT, OG SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION.
UNDGÅ AT SE LIGE PÅ MED OPTISKE INSTRUMENTER.

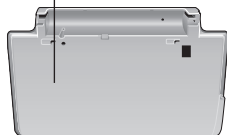
VARO - AVATTAESSA JA SUOJALUKITUS OHITETTAESSA
OLET ALTTIINA LUOKAN 1M NÄKYVÄÄ JA NÄKYMÄTÖNTÄ LASERSÄTEILYÄ.
ÄLÄ KATSO OPTISELLA LAITTEELLA SUORAAN SÄTEESEEN.

VORSICHT - SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG KLASSE 1M.
WENN ABDECKUNG GEÖFFNET UND SICHERHEITSVERRIEGELUNGEN ÜBERBRÜCKT.
NICHT DIREKT MIT OPTISCHEN INSTRUMENTEN BETRACHTEN.

ATTENTION - RAYONNEMENT LASER VISIBLE ET INVISIBLE, CLASSE 1M.
EN CAS D'OUVERTURE ET LORSQUE LA SÉCURITÉ EST NEUTRALISÉE.
NE PAS REGARDER DIRECTEMENT À L'AIDE D'INSTRUMENTS D'OPTIQUE.

(Bottom of product)

CLASS 1
LASER PRODUCT



(Bottom of product)

Matsushita Electric Industrial Co., Ltd.

Web Site: <http://panasonic.net>

(En)

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