



Panasonic®

Operating Instructions Portable DVD/CD Player

Model No. **DVD-LS91**

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 or "ALL".

Region	Number
For the United Kingdom	2
For Australia and N.Z.	4

Example: For the United Kingdom



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

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

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.

Figure A

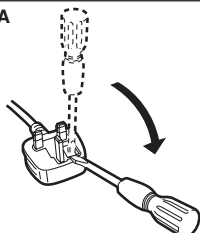
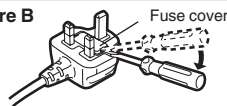


Figure B



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

Figure A

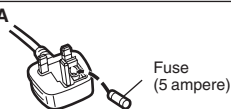
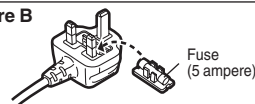


Figure B



WARNING:

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

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

AC adaptor

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

But

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

THIS UNIT IS INTENDED FOR USE IN MODERATE CLIMATES.

Accessories



Use numbers indicated in parentheses when asking for replacement parts.

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

- 1 **Audio/video cable** (K2KA6CB00003)
- 1 **AC adaptor** (RFEA213W)
- 1 **AC mains lead**
 - For the United Kingdom** (K2CT3CA00004)
 - For Australia and N.Z.** (K2CJ2DA00008)
 - For use with this unit only. Do not use it with other equipment.
Also, do not use cords for other equipment with this unit.
- 1 **Car DC Adaptor** (RFEC202M-M)
- 1 **Rechargeable battery pack** (CGR-H701)
For replacement: Available from Panasonic dealers:
(CGR-H701, CGR-H713)
- 1 **Headrest Mounting Bracket** (RXQ1405A)
- 1 **Monitor holder** (RGQ0442-K)

For the United Kingdom and Republic of Ireland

■ Sales and Support Information

Customer Care Centre

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

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.

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

Table of contents

Caution for AC Mains Lead	2
Accessories	3
Precautions	4
Discs that can be played	6

Preparations

① Attaching the battery	8
② Recharging the battery	8
③ Adjusting the LCD angle	9

Playing discs	10
Useful functions	12

Enjoying higher quality audio and video	15
Playing data discs	16
About DivX VOD content	17
Playing HighMAT™ discs	18
Playing programs/playlists	18
Playing CD using menus	18
Enjoying in a car	19
Using On-Screen Menus	22
Changing the player settings	24
Using this unit with other equipment	26

Frequently asked questions	27
Maintenance	27
Troubleshooting guide	28
Specifications	31
Index	Back cover

CAUTION!

DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED.

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

WARNING:

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

To prevent damage

Avoid the following:

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

Do not use the unit in the following places:

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

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

Precautions

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

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



Precautions for Listening with the Headphones or Earphones

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

Batteries

1. Battery pack (Lithium ion battery pack)

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

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.

Marking sign is located on bottom of the unit.

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

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

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

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

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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.

Official DivX® Certified product.

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

DivX, DivX Certified, and associated logos are trademarks of DivX, Inc. and are used under license.



-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.

Discs that can be played




Commercial discs

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

Discs that cannot be played

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

Recorded disc (✓: Available X: Not available)

Disc Logo	Recorded on a DVD video recorder, etc.		Recorded on a personal computer, etc.					Necessity of finalize ^{#4}
	DVD-VR ^{#2}	DVD-V ^{#3}	WMA	MP3	JPEG	MPEG4	DivX	
	✓	—	X	✓	✓	✓	✓	Not Necessary
	✓	✓	X	✓	✓	✓	✓	Necessary
	✓	✓	X	X	X	X	X	Necessary
+R/+RW —	X	(✓)	X	X	X	X	X	Necessary
+R DL —	X	(✓)	X	X	X	X	X	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 video 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 video recorders or DVD video cameras using Version 1.2 of the Video Recording Format (a unified video recording standard).

^{#3} Discs recorded on DVD video 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”	<ul style="list-style-type: none"> • 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”	<ul style="list-style-type: none"> • 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”	<ul style="list-style-type: none"> • 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.
MPEG4	DVD-RAM DVD-R/RW CD-R/RW	“.ASF” “.asf”	<ul style="list-style-type: none"> • You can play MPEG4 data [conforming to SD VIDEO specifications (ASF standard)/MPEG4 (Simple Profile) video system/G.726 audio system] recorded with the Panasonic SD multi cameras or DVD video recorders with this unit. • The recording date may differ from that of the actual date.
DivX	DVD-RAM DVD-R/RW CD-R/RW	“.DIVX” “.divx” “.AVI” “.avi”	<ul style="list-style-type: none"> • Plays all versions of DivX video (including DivX® 6) [DivX video system/MP3, Dolby Digital or MPEG audio system] with standard playback of DivX® media files. – Functions added with DivX Ultra are not supported. • GMC (Global Motion Compensation) is not supported. • DivX files greater than 2GB or have no index may not play properly on this unit. • This unit supports all resolutions up to maximum of 720 × 480 (NTSC)/720 × 576 (PAL). • You can select up to 8 types of audio and subtitles on this unit.

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

Naming folders and files

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

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

DVD-RAM

- Discs must conform to UDF 2.0.

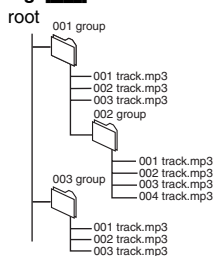
DVD-R/RW

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

CD-R/RW

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

e.g. **MP3**

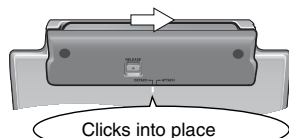
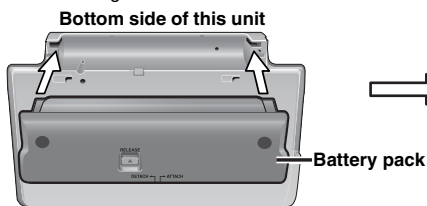


Preparations

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

① Attaching the battery (When the unit is off)

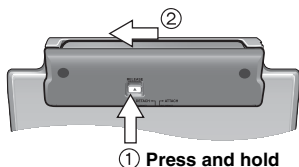
An optional battery pack (CGR-H713) is also available. The procedure for attaching and detaching is the same.



Check to make sure it is securely fastened.

Detaching

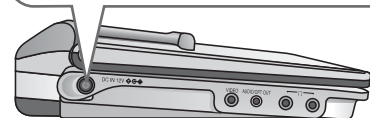
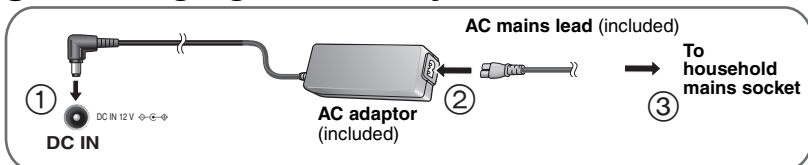
- Turn the unit off before detaching the battery pack.



When not using for long periods of time

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

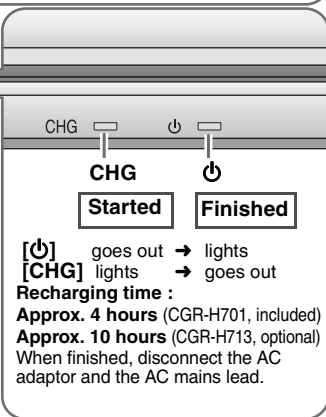
② Recharging the battery (When the unit is off)



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

To conserve power

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



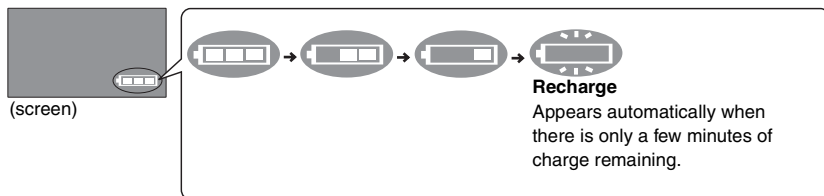
Approximate play times (Hours)

Battery pack	Play (at room temperature using headphones)			
	LCD brightness level			LCD Off
	-5	0	5 (factory preset)	
CGR-H701	3	2	1.5	5
CGR-H713 (optional)	10	7	5	15

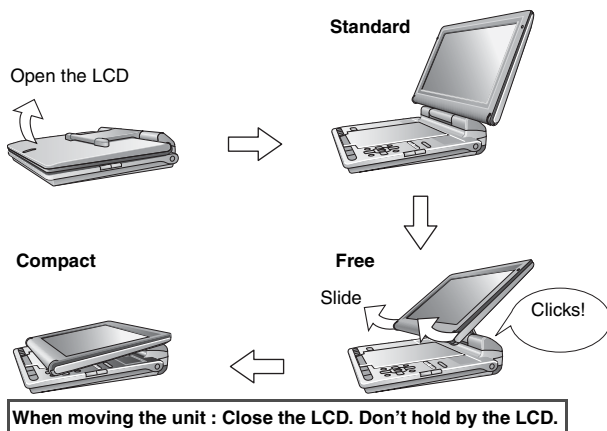
- The times indicated above may differ depending on use.
- To change the LCD brightness (→ page 12, Adjusting the picture quality on the LCD).

Checking the remaining battery charge

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



3 Adjusting the LCD angle



Playing discs

1 Open the lid.

OPEN



Headphone terminals [Ω]
φ 3.5 mm stereo mini jack

2 Insert a disc and close the lid.

Click into place



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

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

3 Press and hold.

ON



The unit turns on and play begins.

4 Adjust the volume.




VOL





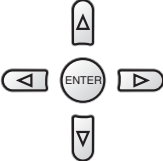


When using headphones, turn down the volume before connection.

- To play **JPEG**, **MP3**, **MPEG4** or **DivX** on DVD-RAM that contain both **DVD-VR** and another format (e.g. **JPEG**), select "Play as Data Disc" (→ page 23, Other Menu).
- While stopped, the unit automatically turns off once 15 minutes (after approximately 5 minutes when using the battery pack) have elapsed.
- Discs continue to rotate while menus are displayed. Press [■, -OFF] when you finish to preserve the unit's motor.
- Total title number may not be displayed properly on +R/+RW.
- If you are experiencing problems, refer to troubleshooting guide (→ page 28).


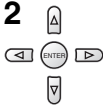
Operations

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


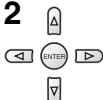
	Skip	Press [⏮ , ⏭]. DVD-VR Can also skip to the markers.
	Search	Press and hold [⏮ , ⏭] (up to 5 steps).
	Slow play	Press and hold [⏮ , ⏭] (up to 5 steps) while paused. Press [▶ , ON] to return to normal play. VCD [▶▶] only • MPEG4 DivX : Does not work.
TOP MENU 	Top menu	DVD-V
	Playing programs	DVD-VR (→ page 18)
	Playback menu	WMA MP3 JPEG MPEG4 DivX Playing data discs (→ page 16)
MENU 	Menu	DVD-V
	Playing playlists	DVD-VR (→ page 18)
	Navigation menu	WMA MP3 JPEG MPEG4 DivX Playing data discs (→ page 16)
RETURN 	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 MPEG4 DivX Press [▲ ▼]. • Does not work while paused.

Useful functions


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

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

Adjusting the picture quality on the LCD

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

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

-  Convenient when you want to skip commercials etc.
During play, press [MANUAL SKIP].
- This may not work depending on the play position.
 - **DVD-VR** Does not work:
 - with still picture part.
 - when playing a playlist.


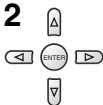
Repeat play (Only when the elapsed play time can be displayed.) **JPEG** : you can use even if there is no elapsed time display.)

-  Press several times to select the content to be repeated.
- To exit the screen : Press [**RETURN**].



To repeat a specified section (A-B Repeat)

Except still picture part

- 1**  **2**  During play, press once.
- Press [**▲▼**] to select "Other Settings".
 - Press [**▶**] then [**▲▼**] to select "Play Menu".
 - Press [**▶**] then [**▲▼**] to select "A-B Repeat".
 - 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 DISPLAY

Press once.

2 
 ENTER 


- 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**].

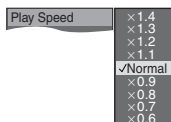
Changing play speed DVD-VR DVD-V

1 DISPLAY

During play,
press once.

2 
 ENTER 


- 1 Press [**▲▼**] to select “Other Settings”.
- 2 Press [**▶**] then [**▲▼**] to select “Play Speed”.



- 3 Press [**ENTER**] and [**▲▼**] to select “Normal” or “x0.6” to “x1.4” (in 0.1 units).
- 4 Press [**ENTER**].

- Press [**▶, ON**] to return to normal play.
- After you change the speed
 - H.Bass (→ page 15), Advanced Surround (→ below), Multi Remaster (→ page 15) and Sound Enhancement (→ page 23, Audio Menu) do not work.
 - Digital output switches to PCM.
 - 96 kHz sampling frequency is converted to 48 kHz.
- This may not work depending on the disc’s recording.
- To exit the screen : Press [**RETURN**].
- This function is effective only when “Monitor Priority” is set to “Video Output” (→ page 24, “Video” tab).

Enjoying virtual surround (Advanced Surround)

Motion picture with 2 or more channels


EQ
MODE


Press to select “SP 1 Natural”, “SP 2 Enhanced”, “HP 1 Natural” or “HP 2 Enhanced”.

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.

Useful functions

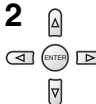
Changing soundtracks *Motion pictures*

1 DISPLAY



Press once.

2



① Press [▲▼] to select "Audio".

② Press [▶] then [▲▼] to select the soundtrack.

③ Press [ENTER].

DVD-VR VCD DivX

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

DVD-V (Karaoke discs)

① Press [▲▼] to select "Karaoke".

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/DD Digital/DTS/MP3/MPEG: Signal type

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

Example: 3/2_1ch

- 0: No surround
- 1: Mono surround
- 2: Stereo surround (left/right)
- 1: Center
- 2: Front left+ Front right
- 3: Front left+ Front right+ Center



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

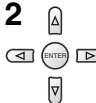
Changing subtitles *Discs with subtitles*

1 DISPLAY



Press once.

2



DVD-VR DVD-V VCD DivX

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].



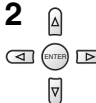
Angle select **DVD-V** with multiple angles /Still picture rotation **JPEG**

1 DISPLAY



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)

DISPLAY



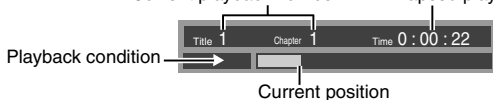
Press twice.

■ Basics

e.g. **DVD-V**

Current playback number

Elapsed play time



DISPLAY



Press three times.

■ Details

e.g. **DVD-V**

- See above for changing soundtracks
- See above for changing subtitles
- See above, Angle select for changing angles
- Aspect of current playback title

• Details-DVD-Video	
Audio	1 ---DTS 3/2_1ch
Subtitle	---
Angle	1/1
Source Aspect	4/3
Title Total Time	0:54:28

Total play time of current playback title

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

To exit the screen: Press [RETURN].

Enjoying higher quality audio and video

Reproducing more natural audio (Multi Re-master)

- **DVD-VR DVD-V (recorded with 48 kHz only) VCD CD**: This feature gives you a more natural sound by adding higher frequency signals not recorded on the disc, for example, playing DVD-Video recorded with 48 kHz at 96 kHz.
- **WMA MP3 (recorded with other than 8 kHz, 16 kHz or 32 kHz)**: reproduces the frequencies lost during recording to give you a sound closer to the original.

1 DISPLAY

2



Press once.



- 1 Press [**▲▼**] to select "Other Settings".
 - 2 Press [**▶**] then [**▲▼**] to select "Audio Menu".
 - 3 Press [**▶**] then [**▲▼**] to select "Multi Re-master".
 - 4 Press [**ENTER**] and [**▲▼**] to select "1", "2" or "3".
 - 5 Press [**ENTER**].
- To exit the screen : Press [**RETURN**].



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

- This feature does not work when H.Bass (→ below) or Advanced Surround (→ page 13) is on.
- This feature does not work with **MP3** on DVD-RAM or DVD-R/RW.
- When connecting with a digital optical cable (→ page 26), the actual output sampling frequency depends on "PCM Digital Output" setting in "Audio" tab (→ page 25).

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

1 DISPLAY

2



Press once.



- 1 Press [**▲▼**] to select "Other Settings".
 - 2 Press [**▶**] then [**▲▼**] to select "Audio Menu".
 - 3 Press [**▶**] then [**▲▼**] to select "H.Bass".
 - 4 Press [**▶**] then [**▲▼**] to select "On" or "Off".
 - 5 Press [**ENTER**].
- To exit the screen : Press [**RETURN**].
 - If the sound is distorted or there is noise, set to "Off".



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

Cinema1: Mellows images and enhances detail in dark scenes.

Cinema2: Sharpens images and enhances detail in dark scenes.

1 DISPLAY

2



Press once.



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



Reducing noise in pictures (Depth Enhancer/MPEG DNR)

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

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

1 DISPLAY

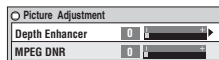
2



Press once.



- 1 In the procedure 2-4 (→ above, Cinema1/Cinema2), select "User" and press [**ENTER**].
 - 2 Press [**▲▼**] to select "Picture Adjustment" and press [**ENTER**].
 - 3 Press [**▲▼**] to select "Depth Enhancer" or "MPEG DNR".
 - 4 Press [**◀▶**] to change the setting. (Depth Enhancer: 0 to +3, 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 data discs WMA MP3 JPEG MPEG4 DivX

- Select "Play as Data Disc" (→ page 23, Other Menu) in the following cases:
 - To play HighMAT discs without using the HighMAT function
 - To play **JPEG**, **MP3**, **MPEG4** or **DivX** on DVD-RAM that contain both **DVD-VR** and another format (e.g. **JPEG**)


Playing items in order (Playback Menu)

While the menu is displayed

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


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

All content
WMA/MP3
JPEG
MPEG4 and
DivX video



Playing from the selected item (Navigation Menu)

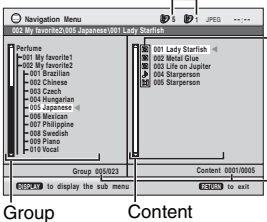
1 MENU **2**



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

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

Group and content number currently playing



Group Content

• 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
Video	MPEG4 and DivX video only
Help display	To switch between guide messages and the playback condition indicator
Find	To search by content or group title (→ see below)

■ Searching by a content or group title

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

- 1 Select "Find" and press [**ENTER**]. (→ see above)
- 2 Press [**▲▼**] to select a character and press [**ENTER**].
 - Repeat to enter another character.
 - Lower case is also searched.
 - Press and hold [**◀▶**] to skip between A, E, I, O and U.
 - Press [**◀**] to erase a character.
 - Erase the asterisk (*) to search for titles starting with that character.
- 3 Press [**▶**] to select "Find" and press [**ENTER**]. The search result screen appears.
- 4 Press [**▲▼**] to select the content or group and press [**ENTER**].



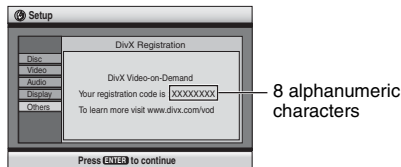
About DivX VOD content

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

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

Display the unit's registration code

(→ page 25, "DivX Registration" in "Others" tab)



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

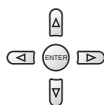
Regarding DivX content that can only be played a set number of times

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

When playing this content

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

Playing HighMAT™ discs WMA MP3 JPEG



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

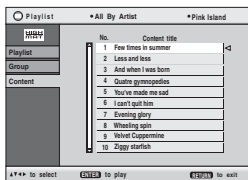


Menu:
 Takes you to the next menu which shows playlists or another menu.
Playlist:
 Play starts.

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

Selecting from the list

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



Playing programs/playlists DVD-VR

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

1 To play programs:

TOP MENU

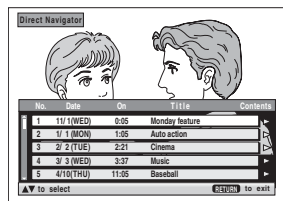
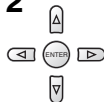


To play playlists:

MENU



2



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

- Only when the disc contains a playlist.

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

Playing CD using menus CD

Titles appear with CD text playback.

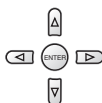
1 MENU



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.

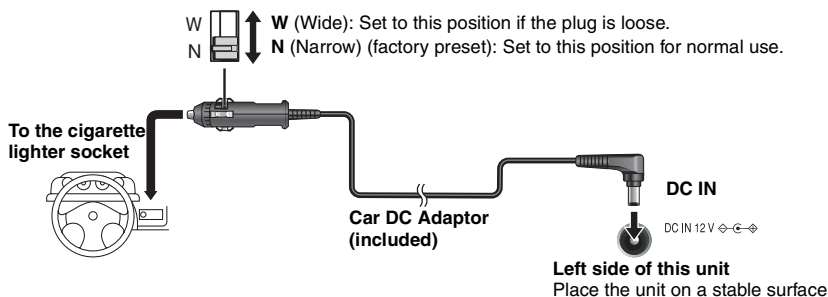
Do not operate this unit where it can be viewed by the driver.

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

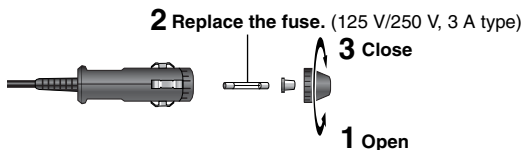
Before connection, consult your car owner's manual or your dealer.

- 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, 3 A fuse. Use of any other type can cause fire.



Cautions

• To avoid draining your car battery

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



(Left side of this unit)

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

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.

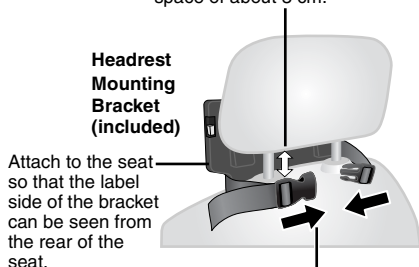
- **Do not attach or detach while driving, and do not attach in the following locations, otherwise it may result in injury or traffic accidents:**

- 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

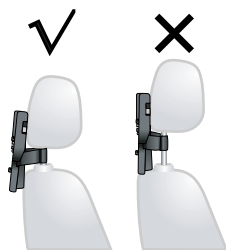
- **Make sure that the bracket belt is securely fastened, and check the lock on the unit.**
In the event of an accident, sudden acceleration, or braking, the unit could become loose and cause injury.

1 Attaching the headrest bracket to the front seat.

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



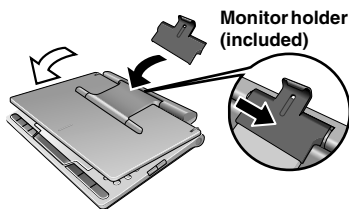
Side view



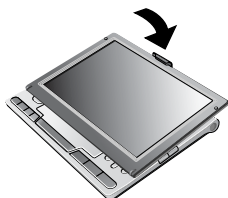
- ② Close the buckle and adjust the belt until it fits tightly around the headrest.

2 Attaching the monitor holder.

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

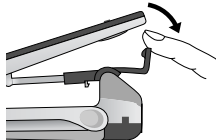


- ② Rotate the monitor backwards so the screen is facing out, and lock into place with the monitor holder.

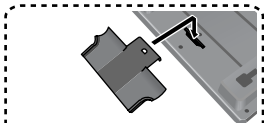


Check that the monitor is locked into position.

Detaching the monitor



Press the monitor holder as shown to detach it.



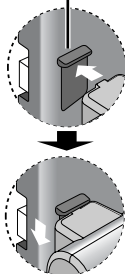
After use, detach the monitor holder from the unit. You can store it in the bracket.

3 Attaching the unit to the bracket.

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

- Do not use until you make sure that the unit is not loose and cannot be lifted upwards.

Line up the protruding sections here.



When correctly attached, you will hear a locking sound.

click!

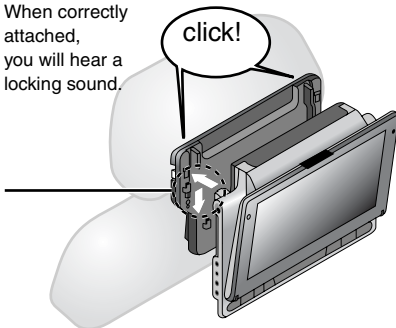
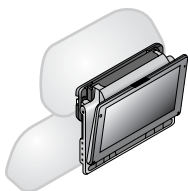
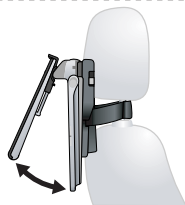


Diagram of attached bracket

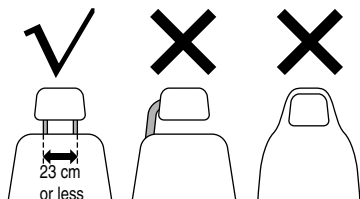


Use the monitor in the open position as shown in the illustration to the right to prevent abnormal audio or damage resulting from vibrations in the car. The angle of the monitor can be adjusted up to about 30°.

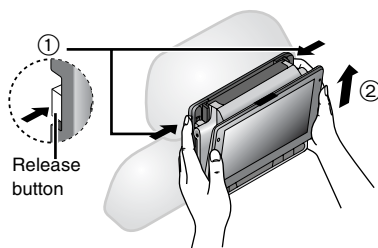


- The angle of the monitor may shift while driving due to vibration, etc.

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



Releasing the unit from the bracket



- ① Press the release buttons (left and right) 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.

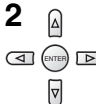
Using On-Screen Menus

1 DISPLAY



Press once.

2



① Press [**▲▼**] to select the menu.

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

Repeat step ② if necessary.

- Items shown differ depending on the type of software.
- Press [**◀**] to go to the previous menu.
- 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 <ul style="list-style-type: none"> • 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) <ol style="list-style-type: none"> 1. Press [ENTER] twice to show Time Slip indicator. 2. Press [▲▼] to select the time and press [ENTER]. <ul style="list-style-type: none"> • Press and hold [▲▼] to alter faster. To change remaining/elapsed time display
Video	To display pixel number DivX fps (frame per second) is also displayed.
Audio	(→ page 14, Changing soundtracks) To display the current bitrate or sampling frequency
Number Select VCD (with playback control)	To enter number <ul style="list-style-type: none"> • 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-Video 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") <ul style="list-style-type: none"> • 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)

Source Select **DivX**
When you select "Auto" the constructing method of the DivX contents is automatically distinguished and output. If the picture is distorted, select "I (Interlace)" or "P (Progressive)" depending on which constructing method was used when the contents were recorded to disc.

Auto **I (Interlace)** **P (Progressive)**

Audio Menu

H.Bass	(→ page 15)
Advanced Surround	(→ page 13)
Dialogue Enhancer	<p>To make the dialogue in movies easier to hear</p> <p>DVD-V (Dolby Digital, DTS, MPEG, 3-channel or over, with the dialogue recorded in the center channel)</p> <p>DivX (Dolby Digital, 3-channel or over, with the dialogue recorded in the center channel)</p> <p>On ↔ Off</p>
Multi Re-master	(→ page 15)
Sound Enhancement	<p>You can enjoy comfortable, analog-like sound.</p> <p>DVD-VR DVD-V (recorded with 48 kHz only) VCD CD</p> <p>WMA MP3 (recorded with other than 8 kHz, 16 kHz or 32 kHz)</p> <p>On ↔ Off</p> <ul style="list-style-type: none">• This feature does not work with MP3 on DVD-RAM or DVD-R/RW.• This does not work when H.Bass (→ page 15), Advanced Surround (→ page 13) or Multi Re-master (→ page 15) is on.• This may not work depending on the disc's recording.


Display Menu

Information	On ↔ Off
Subtitle Position	0 to -60 (in 2 units)
Subtitle Brightness	Auto, 0 to -7
Just Fit Zoom	<p>Motion pictures To expand the letterbox picture to fit the screen. Press [▲▼] to select the preset aspect ratio or "Auto".</p> <p>DVD-VR DVD-V VCD</p> <p>Auto ↔ 4:3 Standard ↔ European Vista ↔ 16:9 Standard</p> <p>↕ ↕</p> <p>Cinemascope2 ↔ Cinemascope1 ↔ American Vista ↕</p> <ul style="list-style-type: none">• Depending on the disc, the preset aspect ratio may not be displayed. <p>MPEG4 DivX</p> <p>Standard ↔ Original</p> <p>↕ ↕</p> <p>Full ↔ Full</p> <ul style="list-style-type: none">• This function is effective only when "Monitor Priority" is set to "Video Output" (→ page 24, "Video" tab).
Manual Zoom	<p>Motion pictures Press [▲▼] for fine adjustments. (Press and hold to alter faster.)</p> <p>–from ×1.00 to ×1.60 (in 0.01 units) –from ×1.60 to ×2.00 (in 0.02 units)</p> <p>MPEG4 DivX only</p> <p>–from ×2.00 to ×4.00 (in 0.05 units)</p> <p>It may not be possible to zoom up to ×4.00 depending upon the connected television and its settings.</p> <ul style="list-style-type: none">• This function is effective only when "Monitor Priority" is set to "Video Output" (→ page 24, "Video" tab).
Bit Rate Display	Motion pictures On ↔ Off
GUI See-through	Off, On, Auto (Switches on automatically when the images appear on the display.)
Other Menu	
Setup	(→ page 24, Changing the player settings)
Play as DVD-VR Play as HighMAT or Play as Data Disc	<ul style="list-style-type: none">• Select "Play as Data Disc" to play JPEG, MP3, MPEG4 or DivX on DVD-RAM that contain both DVD-VR and another format (e.g. JPEG) or to play a HighMAT disc without using the HighMAT function.

Changing the player settings

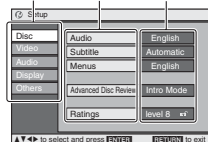
- Referring to pages 24 to 25, change as required.
- Underlined items are the factory presets.

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

- 1 **DISPLAY** 2 
- ① Press [**▲▼**] to select "Other Settings".
- ② Press [**▶**] then [**▲▼**] to select "Other Menu".
- ③ Press [**▶**] then [**▲▼**] to select "Setup".
- ④ Press [**ENTER**].

Press once.

Menu Item Content



- 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	<ul style="list-style-type: none"> • <u>English</u> • Other****#3 	<ul style="list-style-type: none"> • Original #1 	Language Options
Subtitle	<ul style="list-style-type: none"> • <u>Automatic</u>#2 • Other****#3 	<ul style="list-style-type: none"> • English 	<ul style="list-style-type: none"> • French • Italian • Polish • German • Spanish • Swedish • Dutch
Menus	<ul style="list-style-type: none"> • <u>English</u> • Other****#3 		
Advanced Disc Review Select how to review (→ page 13).	<ul style="list-style-type: none"> • <u>Intro Mode</u>: 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) <ul style="list-style-type: none"> • <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. <p>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.</p>		

#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

Monitor Priority Choose the video output mode.	<ul style="list-style-type: none"> • <u>Internal LCD</u>: Video output is suitable for the LCD on this unit. • Video Output: When connected to a television. 	
TV Aspect Choose the setting to suit your television and preference.	<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. • <u>16:9</u>: Widescreen television Use the television's screen modes to change the way the picture is shown. 	 
Still Mode Specify the type of picture shown when paused.	<ul style="list-style-type: none"> • <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.	<ul style="list-style-type: none"> • <u>PAL60</u>: When connected to a PAL television • NTSC: When connected to an NTSC television 	
Picture/Video Output Choose the video signal format to be output for JPEG, MPEG4 and DivX video.	<ul style="list-style-type: none"> • <u>Automatic</u> • PAL • NTSC/PAL60: Output will depend on "NTSC Disc Output" setting (→ above). If picture output is not smooth during playback, change the setting. 	

“Audio” tab

PCM Digital Output*	<p>Check the digital input limitations of the equipment you connect and select the maximum sampling frequency of PCM digital output.</p> <ul style="list-style-type: none"> ● Off: When not connected using a digital optical cable ● Up to 48 kHz: When connected to equipment compatible with 44.1 or 48 kHz ● Up to 96 kHz: When connected to equipment compatible with 88.2 or 96 kHz ● Up to 192 kHz: When connected to equipment compatible with 176.4 or 192 kHz <p>● Signals from copy-protected discs are converted to 48 or 44.1 kHz.</p> <p>● Some equipment cannot handle sampling frequencies of 88.2 kHz, even if it can handle 96 kHz. Read your equipment's operating instructions for details.</p>
Dolby Digital*	<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”. (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*	<ul style="list-style-type: none"> ● <u>Bitstream</u> ● PCM
MPEG*	<ul style="list-style-type: none"> ● <u>PCM</u> ● Bitstream
Dynamic Range Compression	<ul style="list-style-type: none"> ● Off ● 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).

* Only when connected using a digital optical cable (→ page 26).

“Display” tab

Menu Language	<ul style="list-style-type: none"> ● English ● Français ● Deutsch ● Italiano ● Español ● Polski ● Svenska ● Nederlands
On-Screen Messages	<ul style="list-style-type: none"> ● On ● Off
Background during Play Select background during JPEG, MPEG4 and DivX video playback.	<ul style="list-style-type: none"> ● Black ● Gray

“Others” tab

DivX Registration	You need this registration code to purchase and play DivX Video-on-Demand (VOD) content. (→ page 17)
Re-initialise Setting This returns all values in the Setup menus to the default settings.	<ul style="list-style-type: none"> ● 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. ● No

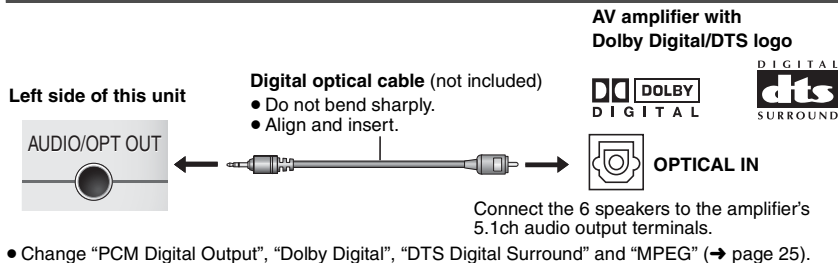
Language code list

Abkhazian: 6566	Catalan: 6765	Hausa: 7265	Lithuanian: 7684	Rhaeto-Romance: 8471	Tajik: 8471
Afar: 6565	Chinese: 9072	Hebrew: 7387	Macedonian: 7775	Romanian: 8279	Tamil: 8465
Afrikaans: 6570	Corsican: 6779	Hindi: 7273	Malagasy: 7771	Russian: 8285	Tatar: 8484
Albanian: 8381	Croatian: 7282	Hungarian: 7285	Malay: 7783	Samoan: 8377	Telugu: 8469
Ameharic: 6577	Czech: 6783	Icelandic: 7383	Malayalam: 7776	Sanskrit: 8365	Thai: 8472
Arabic: 6582	Danish: 6865	Indonesian: 7378	Maltese: 7784	Scots Gaelic: 7168	Tibetan: 6679
Armenian: 7289	Dutch: 7876	Interlingua: 7365	Maori: 7773	Serbian: 8382	Tigrinya: 8473
Assamese: 6583	English: 6978	Irish: 7165	Marathi: 7782	Serbo-Croatian: 8372	Tonga: 8479
Aymara: 6589	Esperanto: 6979	Italian: 7384	Moldavian: 7779	Shona: 8378	Turkish: 8482
Azerbaijani: 6590	Estonian: 6984	Japanese: 7465	Mongolian: 7778	Sindhi: 8368	Turkmen: 8475
Bashkir: 6665	Faroeese: 7079	Javanese: 7487	Nauru: 7865	Singhalese: 8373	Twi: 8487
Basque: 6985	Fiji: 7074	Kannada: 7578	Nepali: 7869	Slovak: 8375	Ukrainian: 8575
Bengali, Bangla: 6678	Finnish: 7073	Kashmiri: 7583	Norwegian: 7879	Slovenian: 8376	Urdu: 8582
Bhuthani: 6890	French: 7082	Kazakh: 7575	Oriya: 7982	Somali: 8379	Uzbek: 8590
Bihari: 6672	Frisian: 7089	Kirghiz: 7589	Pashto, Pushto: 8083	Spanish: 6983	Vietnamese: 8673
Breton: 6682	Galician: 7176	Korean: 7579	Persian: 7065	Sundanese: 8385	Volapük: 8679
Bulgarian: 6671	Georgian: 7565	Kurdish: 7585	Polish: 8076	Swahili: 8387	Welsh: 6789
Burmese: 7789	German: 6889	Laotian: 7679	Portuguese: 8084	Swedish: 8386	Wolof: 8779
Byelorussian: 6669	Greek: 6976	Latin: 7665	Punjabi: 8065	Tagalog: 8476	Xhosa: 8872
Cambodian: 7577	Greenlandic: 7576	Latvian, Lettish: 7686	Quechua: 8185	Yiddish: 7473	Yoruba: 8979
	Guarani: 7178	Lingala: 7678		Zulu: 9085	
	Gujarati: 7185				

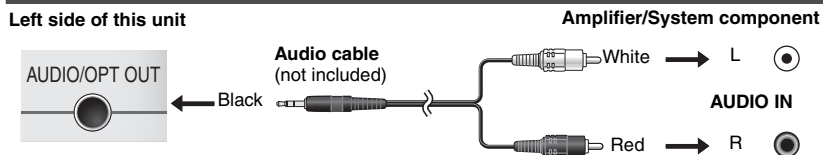
Using this unit with other equipment

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

Enjoying with 5.1ch audio

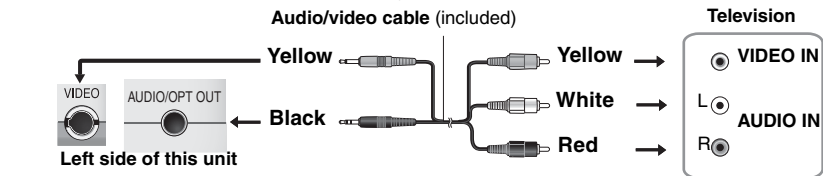


Enjoying stereo audio



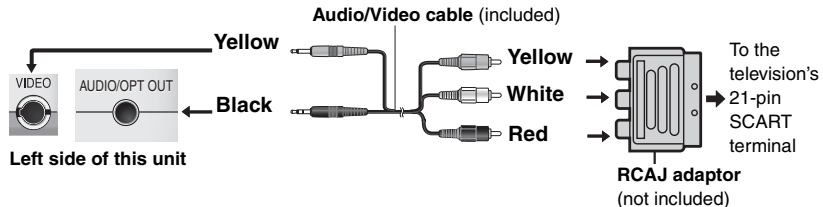
Enjoying with a television

- Connect the video output from this unit directly to the television.
- Set "Monitor Priority" to "Video Output" (→ page 24, "Video" tab).



For the United Kingdom

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



- 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.

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 (that has 5.1ch audio output terminals) displaying the Dolby Digital/DTS logo. (26)
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?	<ul style="list-style-type: none">• 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

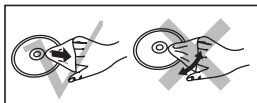
- Remove dust carefully with an air blower for camera lenses (optional).
- Recommended product:
Lens cleaner kit (SZZP1038C)
(Available from Panasonic dealers.)
- You cannot use a CD type lens cleaner.
- Be careful not to touch the lens with your fingers.

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	<ul style="list-style-type: none">● 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.	<ul style="list-style-type: none">● 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.	<ul style="list-style-type: none">● 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. (8)
Play time dramatically reduced after recharging.	<ul style="list-style-type: none">● The battery pack has reached the end of its service life (It can be recharged about 300 times).
Difficulty inserting the plug or the plug is loose when connecting Car DC Adaptor.	<ul style="list-style-type: none">● Set the plug switch to "N" (Narrow) or "W" (Wide) to adjust the plug size depending on the type of socket. (19)

No operation

No response when any buttons pressed.	<ul style="list-style-type: none">● 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.
You have forgotten your ratings password. Reset all the settings to Factory Preset.	<ul style="list-style-type: none">● 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	<ul style="list-style-type: none">● Check that the disc has something recorded on it.

Specific operation impossible or incorrect

It takes time before play starts.	<ul style="list-style-type: none">● Play may take time to begin when an MP3 track has still picture data. Even after the track starts, the correct play time will not be displayed; however, this is normal.● This is normal on DivX video.
Menu doesn't appear. [VCD] with playback control	<ul style="list-style-type: none">● Press [■, -OFF] twice and then press [▶, ON].
Subtitle position is wrong.	<ul style="list-style-type: none">● Adjust the position. ("Subtitle Position" in Display Menu) (23)
No subtitles	<ul style="list-style-type: none">● Display the subtitles. (14)
In A-B repeat, point B is automatically set.	<ul style="list-style-type: none">● The end of an item becomes point B when it is reached.
Play doesn't start.	<ul style="list-style-type: none">● This unit may not play WMA and MPEG4 that contains still picture data.● If playing DivX VOD content, refer to the homepage where you purchased the DivX VOD content. (Example: www.divx.com/vod)● If a disc contains CD-DA and other formats, proper playback may not be possible.

Picture incorrect

No picture on the LCD.	<ul style="list-style-type: none"> ● Select a monitor mode other than "OFF" (No picture). (12, Selecting how to show 4:3 aspect pictures on the LCD). ● Adjust the brightness. (12)
The LCD is dark. LCD pixels turn black or radiate different colors.	<ul style="list-style-type: none"> ● 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).	<ul style="list-style-type: none"> ● 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)
Picture distorted	<ul style="list-style-type: none"> ● Picture quality may worsen or some frames may be skipped when viewing MPEG4, but this is normal. ● DivX Change "Source Select" in Picture Menu. (22) ● Set "Monitor Priority" to "Video Output" when connecting to a television. (24)
Picture stops.	<ul style="list-style-type: none"> ● Picture may stop if the DivX files are greater than 2 GB.
Menu not displayed correctly.	<ul style="list-style-type: none"> ● 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.	<ul style="list-style-type: none"> ● 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.	<ul style="list-style-type: none"> ● Select "Off" in "Advanced Surround". (13) ● Move unit away from mobile phones. ● Noise may occur when playing WMA files. ● There may be some noise output when playing MPEG4, but this is normal.
Piercing noise comes from the speakers.	<ul style="list-style-type: none"> ● If you have connected a digital amplifier which does not include decoder, be sure to select "PCM" in "Dolby Digital", "DTS Digital Surround" or "MPEG" in "Audio" tab. (25)
Effects do not work.	<ul style="list-style-type: none"> ● None of the audio effects work when the unit is connected through the digital optical cable and is outputting bitstream signals. (26) ● Some audio effects do not work or have less effect with some discs. ● H.Bass, Advanced Surround, Multi Re-master and Sound Enhancement do not work if you have changed the play speed.
No sound from the unit's speaker.	<ul style="list-style-type: none"> ● The speaker is off if the LCD is closed or headphones are connected. ● Turn up the volume. (10)
No sound from other speakers.	<ul style="list-style-type: none"> ● Check all connections and settings. (26)
No sound	<ul style="list-style-type: none"> ● There may be a pause in sound when you change the play speed. ● DivX Audio may not be output due to how files were created. (7)





Troubleshooting guide

Recording



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

- 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 (13)
 - PCM Digital Output: Up to 48 kHz (25)
 - Dolby Digital/DTS Digital Surround/MPEG: PCM (25)

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.”	• Clean the disc. (27)
“U11”	• 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 <input type="checkbox"/> <input type="checkbox"/> ” <input type="checkbox"/> <input type="checkbox"/> 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)
“Authorization Error”	• You are trying to play the DivX VOD content that was purchased with a different registration code. You cannot play the content on this unit. (17)
“Rented Movie Expired”	• The DivX VOD content has zero remaining plays. You cannot play it. (17)

[] 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 monitor mode is set to “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, DivX[®]6,8)
- (2) DVD-RAM (DVD-VR, JPEG[®]4,6,7, MP3[®]2,6 MPEG4[®]5,6, DivX[®]6,8)
- (3) DVD-R (DVD-Video, DVD-VR, JPEG[®]4,6,7, MP3[®]2,6, MPEG4[®]5,6, DivX[®]6,8)
- (4) DVD-R DL (DVD-Video, DVD-VR)
- (5) DVD-RW (DVD-Video, DVD-VR, JPEG[®]4,6,7, MP3[®]2,6, MPEG4[®]5,6, DivX[®]6,8)
- (6) +R/RW (Video)
- (7) +R DL (Video)
- (8) CD, CD-R/RW [CD-DA, Video-CD, SVCD[®]1, MP3[®]2,6, WMA[®]3,6, JPEG[®]4,6,7, MPEG4[®]5,6, DivX[®]6,8, HighMAT Level 2 (Audio and Image)]

Signal system: PAL/PAL 60 (NTSC) selectable

LCD screen: 9" α-Si, TFT wide-screen LCD

Composite-video output:

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

Audio output:

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

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): 98 dB
 - CD audio: 97 dB
- (4) Total harmonic distortion:
 - CD audio: 0.008 %

Digital audio output:

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

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 3B/CLASS 3B (DVD/CD)

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

Power consumption (using included AC adaptor):
13 W (Unit only: 10 W)

Power consumption in Standby mode

(using included AC adaptor):

approx. 0.3 W

Power consumption in Recharge mode

(using included AC adaptor):

13 W

AC adaptor:

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

Power consumption: 28 W

DC output: 12 V, 1.5 A

Car DC Adaptor:

DC output: 12 V, 2 A

(Vehicle with 12 V battery only)

Battery pack (lithium ion)

CGR-H701 (included):

Voltage: 7.2 V

Capacity: 2150 mAh

Dimensions (W×D×H)

(excluding protrusions and battery):

235.4 mm×179.2 mm×46.0* mm

*24.3 mm at lowest point

(D=179.2 mm including battery)

(H=46.6 mm including battery)

Mass:

including battery; 1004 g

without battery; 862 g

Note

Specifications are subject to change without notice. Mass and dimensions are approximate.

*1 Conforming to IEC62107

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

*3 Windows Media Audio Ver.9.0 L3

Not compatible with Multiple Bit Rate (MBR)

*4 Exif Ver 2.1 JPEG Baseline files

Picture resolution: between 160×120 and 6144×4096 pixels (Sub sampling is 4:0:0, 4:2:0, 4:2:2 or 4:4:4)

*5 MPEG4 data recorded with the Panasonic SD multi cameras or DVD video recorders Conforming to SD VIDEO specifications (ASF standard)/MPEG4 (Simple Profile) video system/G.726 audio system

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

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

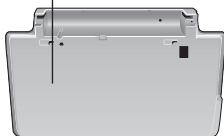
*8 Plays all versions of DivX[®] video (including DivX[®]6) with standard playback of DivX[®] media files. Certified to the DivX Home Theater Profile. GMC (Global Motion Compensation) is not supported.

Index

A A-B Repeat	12	N Navigation Menu	16
Advanced Disc Review	13	Number Select	11, 22
Advanced Surround	13	O On-Screen Menus	22
Angle select	14	P Play speed	13
C Car DC Adaptor	19	Playback Menu	16
CD text playback	18	Playlist	18
Cinema1/Cinema2	15	Programs	18
D Depth Enhancer	15	Q Quick OSD	14
Dialogue Enhancer	23	R Re-initialise Setting	25
DISPLAY	12, 22	REPEAT	12
DivX	6, 7, 17	Resume play	10
Dolby Digital	14, 25, 26	Rotate Picture	14
DTS	14, 25, 26	S Setup	24
E EQ MODE	13	Sound Enhancement	23
F Finalize	6	Soundtrack	14
H H.Bass	15	Subtitle	14
Headrest Mounting Bracket	20	T Time Slip for play only	22
HighMAT	18	TOP MENU	11, 16, 18
J Just Fit Zoom	23		
M MANUAL SKIP	12		
Manual Zoom	23		
MENU	11, 16, 18		
MONITOR MODE	12		
MPEG	25		
MPEG DNR	15		
MPEG4	6, 7		
Multi Re-master	15		

CAUTION - VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.
VARNING - SYNLLIG OCH OSYNLLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRakta EJ STRÅLEN.
ADVARSEL - SYNLLIG OG OSYNLLIG LASERSTRÅLING VED ÅBNING, NÄR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.
ADVARSEL - SYNLLIG OG OSYNLLIG LASERSTRÅLING NÄR DEKSEL ÅPNES OG SIKKERHEDSLÄS BRYTES. UNNGÅ EKSPONERING FOR STRÅLEN.
VARO! - AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYVÄÄ JA NÄKYMÄTÖN LASERISÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VORSICHT - SICHTBARE UND UNSICHTBARE LASERSTRÄHLUNG WENN ABDECKUNG GEÖFFNET UND SICHERHEITVERRIEGELUNG 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.

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