

Panasonic®

Operating Instructions Portable DVD/CD Player

Model No. **DVD-LS84**



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.



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.

EB

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.

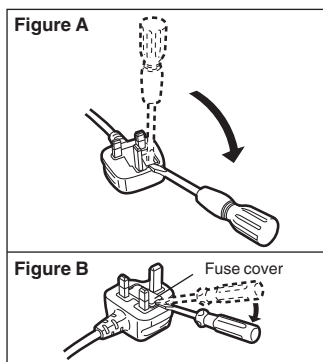
Before use

Remove the connector cover.

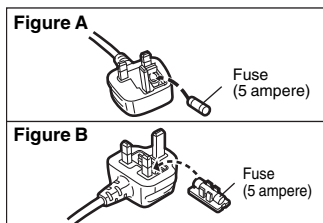
How to replace the fuse

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.



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



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.



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.

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.

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.

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.

THIS UNIT IS INTENDED FOR USE IN MODERATE CLIMATES.

Product Identification Marking is located on the bottom of units.

WARNING

DRIVER MUST NOT OPERATE OR VIEW THIS UNIT WHILE OPERATING THE VEHICLE.

Doing so will distract the driver and could cause a collision resulting in serious injury or property damage.

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

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.
- Excessive sound pressure from earphones and headphones can cause hearing loss.

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.

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 heat or expose to flame.
- Do not leave the battery(ies) in an automobile exposed to direct sunlight for a long period of time with doors and windows closed.
- 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.

Notice about the rechargeable battery

The battery is designated recyclable.

Please follow your local recycling regulations.

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.

Warning

Risk of fire, explosion and burns. Do not disassemble, heat above 60°C or incinerate.

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.

Sales and Support Information

Customer Care Centre

- For customers within the UK: 0844 844 3852
- 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

- For customers: 0844 844 3856
- 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).

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Accessories



Use numbers indicated in parentheses when asking for replacement parts.
(Product numbers correct as of December 2008. These may be subject to change.)

- 1 Audio/video cable (K2KC4CB00026)
- 1 AC adaptor (RFEA217W)
- 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 (RFEC204M-AB)
- 1 Headrest Mounting Bracket (RXQ1405A-1)
- 1 Rechargeable battery pack

Included	Optional
CGR-H711	CGR-H701 CGR-H712

- Depending on the battery pack, playback time may differ. [→ 4, Approximate recharging and play times (Hours)]
- CGR-H711 is not available as option. When purchasing a replacement, request one of the optional batteries listed above.

- 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.

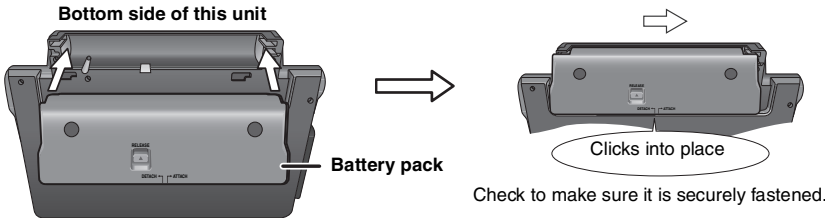
Preparations

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

1 Attaching the battery

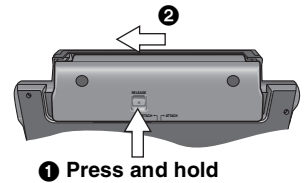
(When the unit is off)

The illustrations shown are of CGR-H711; however the steps for CGR-H712 or CGR-H701 (optional) are the same.



■ Detaching

- Turn the unit off before detaching the battery pack.

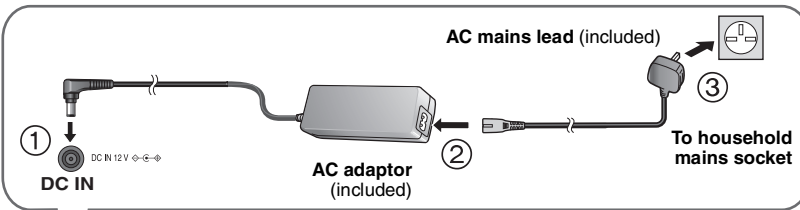


When not using for long periods of time

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

2 Recharging the battery

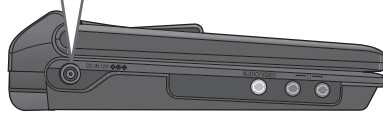
The battery is not charged at the time of purchase. Charge before initial use.



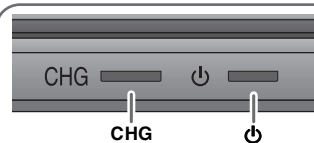
The unit is in the standby condition (the [⏻] indicator lights) when the AC mains lead is connected. The primary circuit is always "live" as long as the AC adaptor is connected to an electrical outlet.

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.



- 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. (→ 15, Connecting the included Car DC Adaptor)



Started **Finished**

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

* Only when recharged with the unit off.

[⏻] indicator

When the unit is connected to the AC mains supply, this indicator lights up in standby mode and goes out when the unit is turned on.

Recharging time:

→ below, Approximate recharging and play times (Hours)
When finished, disconnect the AC adaptor and the AC mains lead.

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.

Approximate recharging and play times (Hours)

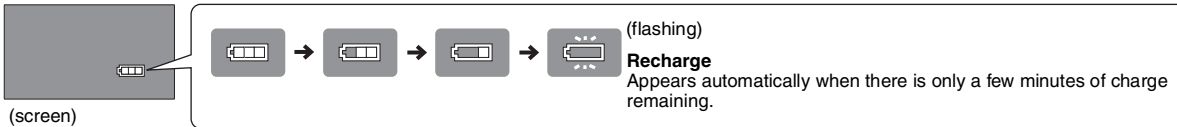
Battery pack	Recharging (When the unit is off) (at 20 °C)	Play (at room temperature using headphones)			
		LCD brightness level			LCD Off
		-5	0	5	
CGR-H711*	4	7	4.5	3	9
CGR-H712 (option)	7	14	9	6	18
CGR-H701 (option)	4	6.5	4	2.5	8

* not available as option

- The times indicated on the left may differ depending on use.
- To change the LCD brightness (→ 7, When selecting "USER MODE").




Checking the remaining battery charge

When the unit is on (→ 6) and powered by the battery pack
Press [DISPLAY] to check on the LCD (Displays for a few seconds).



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, discs recorded with AVCHD format, DVD-Audio, Version 1.0 of DVD-RW, DVD-ROM, CD-ROM, CDV, CD-G, SACD, 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	MPEG4	DivX	
 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 (→ 9, 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, etc. using Version 1.2 of the Video Recording Format (a unified video recording standard).

*3 Discs recorded on DVD recorders or DVD video cameras, etc. using DVD-Video Format.

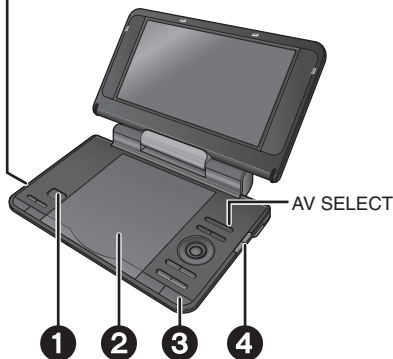
For +R/+RW and +R DL: Discs recorded using a format different from DVD-Video Format, therefore some functions cannot be used.

*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.

Playing discs

Headphone terminals []
 φ 3.5 mm stereo mini jack



- 1 OPEN **Open the lid.**

- 2 Click into place **Insert a disc and close the lid.**
 - 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] to select "DISC". (→ 16, Watching video from other equipment)

- 4 VOL **Adjust the volume.**
 When using headphones, turn down the volume before connection.

- To change the language on the display → 13, Menu Language
- To play audio (MP3), picture (JPEG) or video (MPEG4 DivX) on DVD-RAM with recorded titles (DVD-VR), select "Play as Data Disc" (→ 12, Other Menu).
- While stopped, the unit automatically turns off once about 15 minutes (about 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 (→ 18).

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" is displayed 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). Press [▶ ON] to return to normal play.
	Slow play	DVD-VR DVD-V VCD 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 (→ 7)
	Playback Menu	WMA MP3 JPEG MPEG4 DivX (→ 8)
	Menu	DVD-V
	Playing playlists	DVD-VR (→ 7)
	Navigation Menu	WMA MP3 JPEG MPEG4 DivX (→ 8)
	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



- 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 [O] indicator flashes.)
 - The LCD turns off automatically if you close it.

Press to change.

Selecting the picture quality on the 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].

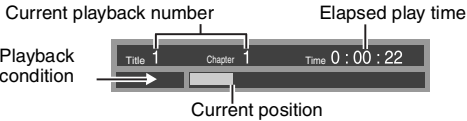
Displaying current playback condition (Quick OSD)

Basics

DISPLAY

Press twice.

e.g. DVD-V

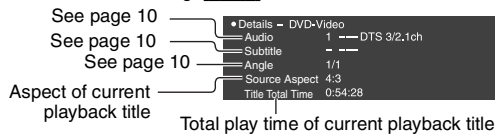


Details

DISPLAY

Press three times.

e.g. DVD-V



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



During play, press several times to select the content to be repeated.



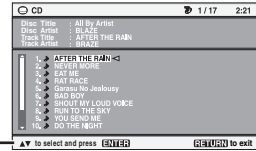
Playing CD using menus

CD

Titles appear with CD text playback.

1

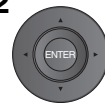
e.g. CD text



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

2

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



To exit the screen: Press [RETURN].

Playing programs/playlists

DVD-VR

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

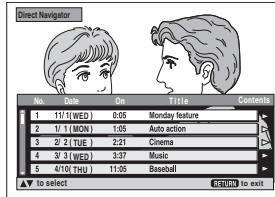
1 To play programs:

To play playlists:

- Only when the disc contains a playlist.

TOP MENU

MENU



2

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



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

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.

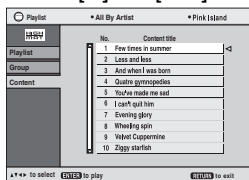


Playlist:
Play starts.

- 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].

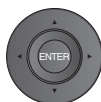
Playing WMA/MP3, JPEG and MPEG4/DivX

WMA MP3 JPEG MPEG4 DivX

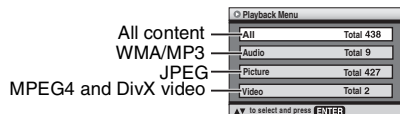
Select "Play as Data Disc" (→ 12, Other Menu) in the following cases:

- To play HighMAT discs without using the HighMAT function
- To play audio (MP3), picture (JPEG) or video (MPEG4 DivX) on DVD-RAM with recorded titles (DVD-VR)
- To return to playing titles (DVD-VR), select "Play as DVD-VR" in "Other Menu" (→ 12).

Playing items in order (Playback Menu)



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

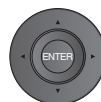


Playing from the selected item (Navigation Menu)

1

MENU
Press once.

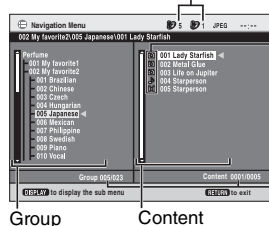
2



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



JPEG
WMA/MP3
MPEG4 and DivX video

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

- 1 Press [MENU].
- 2 Press [DISPLAY].
- 3 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 group or content title (→ below)

Searching by a group or content title

- 1 Press [MENU].
- 2 Press [◀ ▶] to highlight a group title to search a group, or a content title to search its content.
- 3 Press [DISPLAY].
- 4 Select "Find" and press [ENTER].
- 5 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.
- 6 Press [▶] to select "Find" and press [ENTER].
The search result screen appears.
- 7 Press [▲ ▼] to select the group or content 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

(→ 13, DivX Registration)



8 alphanumeric characters

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

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

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

When playing this content

- The number of remaining plays is reduced by one if
 - you turn off the unit or display "Setup" menu.
 - you press [■] twice.
 - you press [◀, ▶] (Skip or search) etc. and arrive at another content.

About DivX subtitles text display

You can display subtitles text recorded onto the DivX video disc on this unit.

This function has no relation to the subtitles specified in DivX standard specifications and has no clear standard. Depending on the methods used to create the file, the following functions may not work.

■ Displaying subtitles text (→ 10, Subtitle)

- DivX video files that do not display "Text" do not contain subtitles text. Subtitles text cannot be displayed.
- If the subtitles text are not displayed correctly, try changing the language settings (→ 13, Subtitle Text).

■ Types of subtitles text file that can be displayed

Subtitles text that satisfy the following conditions can be displayed on this unit.

- File format: MicroDVD, SubRip, or TMLPlayer
- File extension: ".SRT", ".srt", ".SUB", ".sub", ".TXT", or ".txt"
- File name: No more than 44 characters excluding the file extension
- The DivX video file and subtitles text file are inside the same folder, and the file names are the same except for the file extensions.
- If there are more than one subtitles text files inside the same folder, they are displayed in the following order of priority: ".srt", ".sub", ".txt".

■ Limitations of this unit

- In the following situations, the subtitles cannot be displayed as recorded. Furthermore, depending on the methods used to create the file or the state of the recording, only parts of the subtitles may be displayed, or the subtitles may not be displayed at all.
 - When special text or characters are included in the subtitles text.
 - When the file size is larger than 256 KB.
 - When characters with styling specified are included in the subtitle data. Codes that specify the character style within files are displayed as subtitle characters.
 - When data with a different format exists within the subtitle data.
- If the file name of the DivX video file is not displayed correctly on the menu screen (the file name is displayed as "_"), the subtitles text may not be displayed correctly.
- The subtitles text cannot be displayed when search, Time Slip, and other such operations are being performed.
- The subtitles text cannot be displayed when Quick OSD, On-Screen Menus, Navigation Menu and other such menu screens are being displayed.

Tips for making data discs

Format: **WMA**

Disc: **CD-R/RW**

Extension: ".WMA", ".wma"

Reference:

- 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).

Format: **MP3**

Disc: **DVD-RAM, DVD-R/RW, CD-R/RW**

Extension: ".MP3", ".mp3"

Reference:

- 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.

Format: **JPEG**

Disc: **DVD-RAM, DVD-R/RW, CD-R/RW**

Extension: ".JPG", ".jpg", ".JPEG", ".jpeg"

Reference:

- JPEG files taken on a digital camera that conform to DCF (Design rule for Camera File system) 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, PROGRESSIVE JPEG, MOTION JPEG and other such formats, still pictures other than JPEG (e.g. TIFF) or play pictures with attached audio.

Format: **MPEG4**

Disc: **DVD-RAM, DVD-R/RW, CD-R/RW**

Extension: ".ASF", ".asf"

Reference:

- You can play MPEG4 data [conforming to SD VIDEO specifications (ASF standard)/MPEG4 (Simple Profile) video system/G.726 audio system] recorded with the Panasonic SD multi cameras or DVD recorders with this unit.
- The recording date may differ from that of the actual date.

Format: **DivX**

Disc: **DVD-RAM, DVD-R/RW, CD-R/RW**

Extension: ".DIVX", ".divx", ".AVI", ".avi"

Reference:

- 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.
- DivX files greater than 2 GB 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.

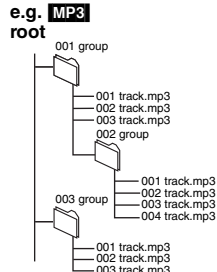
- If groups were created away from the root like "002 group" in the illustration below, the eighth one and onwards is displayed on the same vertical line in the menu screen.

- There may be differences in the display order on the menu screen and computer screen.
- This unit cannot play files recorded using packet 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

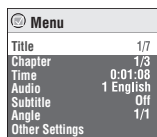
- Discs must conform to UDF bridge (UDF 1.02/ISO9660).
- This unit is not compatible with multi-session. Only the default session is played.

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.

Using On-Screen Menus

- 1**  Press once.
- e.g. **DVD-V**
- 2** 
- ① Press [▲ ▼] to select the menu.
 - ② Press [ENTER] to go to the next menu and [▲ ▼] to select the item.
 - ③ Press [ENTER] to confirm.
- Repeat steps if necessary.
- Items shown differ depending on the type of software.
 - Some items can be changed by pressing [▶] instead of [ENTER].
 - Some functions only work during playback.
 - Press [◀] to go to the previous menu. If this is not possible, exit the screen (→ below) and repeat the above steps to go to the previous menu.
 - To exit the screen: Press [RETURN].



Main menu

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) DVD-VR DVD-V (Except +R/+RW) DivX <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	To change soundtracks (Motion pictures) DVD-VR DivX "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 [ENTER] then [▲ ▼] to select the item. ③ Press [ENTER]. Read the disc's instructions for details. Signal type/data LPCM/□ Digital/DTS/MP3/MPEG: Signal type kHz (Sampling frequency)/bit/ch (Number of channels) Example: 3/2 .1ch .1: Low frequency effect (not displayed if there is no signal) 0: No surround 1: Mono surround 2: Stereo surround (left/right) 1: Center 2: Front left+ Front right 3: Front left+ Front right+Center	
Number Select VCD (with playback control)	To enter number (→ 6) <ul style="list-style-type: none"> • Press and hold [▲ ▼] to alter faster. 	
Thumbnail	To show thumbnail images	
Subtitle	To change subtitles (Discs with subtitles) <ol style="list-style-type: none"> ① Press [ENTER] then [▲ ▼] to select "Off" or "On" and the subtitle language. ② Press [ENTER]. <ul style="list-style-type: none"> • On +R/+RW, a subtitle number may be shown for subtitles that are not displayed. • DVD-VR (with subtitle on/off information) <ul style="list-style-type: none"> – On or Off only can be selected. – Subtitle on/off information cannot be recorded using Panasonic DVD Recorders. 	
Marker (VR)	To recall a marker recorded on DVD recorders	
Angle	To select angles DVD-V with multiple angles	
Rotate Picture	To rotate the picture ("Right" or "Left")	
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	(→ 11)	

Other Settings

Play Speed	DVD-VR DVD-V Normal ×0.6 to ×1.4 (in 0.1 units)	
	<ul style="list-style-type: none"> • Press [▶ ON] to return to normal play. • After you change the speed, H.Bass, Advanced Surround and Sound Enhancement (→ below) do not work. • This may not work depending on the disc's recording. 	

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

JPEG: The Repeat function can be used.)

Repeat	Select an item to be repeated.	
A-B Repeat Repeating a specified section	Except DVD-VR (still picture part) MPEG4 DivX and JPEG Press [ENTER] at the starting and ending points. <ul style="list-style-type: none"> • Press [ENTER] again to cancel. 	

Advanced Disc Review Reviewing titles/programs to play	DVD-VR DVD-V (Except +R/+RW) Press [▶ ON] when you find a title/program to play.	
	<ul style="list-style-type: none"> • You can also review each 10 minutes. Select "Interval Mode"(→ 13, "Advanced Disc Review" in "Disc"tab). • This may not work depending on the play position. • DVD-VR Does not work: <ul style="list-style-type: none"> – with still picture part. – when playing a playlist. 	

Picture Menu

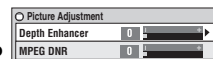
Picture Mode <ul style="list-style-type: none"> • Providing the suitable picture quality for enjoying movies (Cinema1/Cinema2) • Reducing noise in pictures (Depth Enhancer/MPEG DNR) 	Normal: Normal images Cinema1: Mellows images and enhances detail in dark scenes. Cinema2: Sharpens images and enhances detail in dark scenes. User: Picture Adjustment (→ below)	
	<ul style="list-style-type: none"> • This feature may not work depending on the disc's recording. 	

Picture Adjustment

- 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

- 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)

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



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 Enjoying heavy bass with the speakers	DVD-V DVD-VR On ↔ Off	
	<ul style="list-style-type: none"> • 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". • This feature may not work depending on the disc's recording. 	

Advanced Surround Enjoying virtual surround	Motion pictures with 2 or more channels "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).	
	<ul style="list-style-type: none"> • 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 (→ above) is on. • Do not use in combination with surround effects on other equipment. 	

Dialogue Enhancer Making the dialogue in movies easier to hear	DVD-V (Dolby Digital, DTS, MPEG, 3-channel or over, with the dialogue recorded in the center channel)	
	DivX (Dolby Digital, 3-channel or over, with the dialogue recorded in the center channel) On ↔ Off	

Sound Enhancement Enjoying comfortable, analog-like sound	DVD-VR DVD-V (recorded with 48 kHz only) VCD CD	
	WMA MP3 (recorded with other than 8 kHz, 16 kHz or 32 kHz) On ↔ Off	
	<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 or Advanced Surround (→ above) is on. • This may not work depending on the disc's recording. 	

(Continued on the next page)

Using On-Screen Menus

(Continued) 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 ↑↔ Cinemascope2 ↔ Cinemascope1 ↔ American Vista ↔↑</p> <p>● Depending on the disc, the preset aspect ratio may not be displayed.</p> <p>MPEG4 DivX</p> <p>Standard ↔ Original ↑↔ Full ↔</p>
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 - 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 or recording conditions.</p>
Bit Rate Display	<p>Motion pictures On ↔ Off</p>
GUI See-through	Off, On, Auto (Switches on automatically when the images appear on the display.)

Other Menu

Setup	(→ 13)
Play as DVD-VR	Select "Play as Data Disc" in the following cases:
Play as HighMAT	- To play HighMAT discs without using the HighMAT function
or	- To play audio (MP3), picture (JPEG) or video (MPEG4 DivX) on DVD-RAM with recorded titles (DVD-VR)
Play as Data Disc	● To return to playing titles (DVD-VR), select "Play as DVD-VR".

Language code list

Abkhazian: 6566	Bulgarian: 6671	French: 7082	Italian: 7384	Malay: 7783	Quechua: 8185	Spanish: 6983	Urdu: 8582
Afar: 6565	Burmese: 7789	Frisian: 7089	Japanese: 7465	Malayalam: 7776	Rhaeto-Romance: 8385	Sundanese: 8385	Uzbek: 8590
Afrikaans: 6570	Byelorussian: 6669	Galician: 7176	Javanese: 7487	Maltese: 7784	Romanian: 8277	Swahili: 8387	Vietnamese: 8673
Albanian: 8381	Cambodian: 7577	Georgian: 7565	Kannada: 7578	Maori: 7773	Russian: 8285	Swedish: 8386	Volapük: 8679
Ameharic: 6577	Catalan: 6765	German: 6869	Kashmiri: 7583	Marathi: 7782	Samoan: 8377	Tagalog: 8476	Welsh: 6789
Arabic: 6582	Chinese: 9072	Greek: 6976	Kazakh: 6976	Moldavian: 7779	Tajik: 8471	Tamil: 8465	Wolof: 8779
Armenian: 7289	Corsican: 6779	Greenlandic: 7576	Kirghiz: 7579	Mongolian: 7778	Tatar: 8484	Telugu: 8469	Xhosa: 8872
Assamese: 6583	Croatian: 7282	Guarani: 7178	Korean: 7579	Nauru: 7865	Scots Gaelic: 7168	Thai: 8472	Yiddish: 7473
Aymara: 6589	Czech: 6785	Gujarati: 7185	Kurdish: 7585	Nepali: 7869	Serbian: 8382	Tibetan: 6679	Yoruba: 8979
Azerbaijani: 6590	Danish: 6865	Hausa: 7265	Laotian: 7679	Norwegian: 7879	Serbo-Croatian: 8372	Tigrinya: 8473	Zulu: 9085
Bashkir: 6665	Dutch: 7876	Hebrew: 7387	Latin: 7665	Oriya: 7982	Shona: 8378	Tonga: 8479	
Basque: 6985	English: 6978	Hindi: 7273	Latvian, Lettish: 7686	Pashto, Pushto: 8083	Sindhi: 8368	Turkish: 8482	
Bengali, Bangla: 6678	Esperanto: 6979	Hungarian: 7285	Lingala: 7678	Persian: 7065	Sinhalese: 8373	Turkmen: 8475	
Bhutani: 6890	Estonian: 6984	Icelandic: 7383	Lithuanian: 7684	Polish: 8076	Slovak: 8375	Twi: 8487	
Bihari: 6672	Farosee: 7079	Indonesian: 7378	Macedonian: 7775	Portuguese: 8084	Slovenian: 8376	Ukrainian: 8575	
Breton: 6682	Fiji: 7074	Interlingua: 7365	Malagasy: 7771	Punjabi: 8065	Somali: 8379		

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U.S. Patent Nos. 6,836,549; 6,381,747; 7,050,698; 6,516,132; and 5,583,936.

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

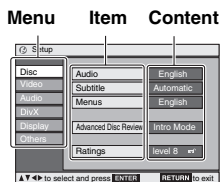


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Changing the player settings

- Referring to the table below, change as required.
 - Underlined items are the factory presets.
 - Items shown differ depending on the type of software.
- The settings remain intact even if you switch the unit to standby.

- 1 Press once.
- 2 
- 3 Press [▲ ▼] to select "Other Settings".
- 4 Press [ENTER] then [▲ ▼] to select "Other Menu".
- 5 Press [ENTER] then [▲ ▼] to select "Setup".
- 6 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] several times.

"Disc" tab



Audio	<ul style="list-style-type: none"> • English • Other*** ** * 	<ul style="list-style-type: none"> • Original*¹ 	Language Options
Subtitle	<ul style="list-style-type: none"> • Automatic*² • Other*** ** * 	<ul style="list-style-type: none"> • English 	<ul style="list-style-type: none"> • Spanish • German • Dutch • Polish • Italian • Swedish
Menus	<ul style="list-style-type: none"> • English 	<ul style="list-style-type: none"> • Other*** ** * 	
Advanced Disc Review Select how to review (→ 11).	<ul style="list-style-type: none"> • 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.	<p>Setting ratings (When level 8 is selected)</p> <ul style="list-style-type: none"> • 8 No Limit • 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 12.

"Video" tab

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. • 16:9: 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"> • Automatic • Field: The picture is not blurred, but picture quality is lower. • Frame: Overall quality is high, but the picture may appear blurred. 	
NTSC Disc Output Choose PAL 60 or NTSC output when playing NTSC discs.	<ul style="list-style-type: none"> • PAL60: 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"> • Automatic • 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

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.)
----------------------------------	---

"DivX" tab

Subtitle Text*	<ul style="list-style-type: none"> • Latin1 • Latin2 • Cyrillic • Turkish
DivX Registration	You need this registration code to purchase and play DivX Video-on-Demand (VOD) content. (→ 9)

* This item is displayed only after playing back a DivX file with Subtitle text.

"Display" tab

Menu Language	<ul style="list-style-type: none"> • English • Nederlands • Français • Svenska • Español • Polski • Deutsch • Italiano
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 • Grey

"Others" tab

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" (→ above) 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
---	---

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.
- DRIVER MUST NOT OPERATE OR VIEW THIS UNIT WHILE OPERATING THE VEHICLE.
Doing so will distract the driver and could cause a collision resulting in serious injury or property damage.

Enjoying video in the back seat with the Headrest Mounting Bracket

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

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

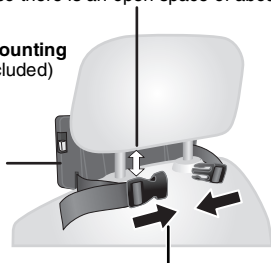
- Do not attach or detach the unit or the bracket while the car is moving.
 - Do not attach the unit in the following locations:
 - anywhere other than the back of the front seat
 - where it can be viewed or operated by the driver
 - where it interferes with the driver's operation of the vehicle
 - where it interferes with the operation of an airbag
 - Ensure that the bracket belt is securely fastened and check the lock on the unit. Refer to installation instructions.
- In the event of an accident, sudden acceleration or braking, the unit could become loose and cause injury or property damage.
- Only use the Panasonic bracket supplied to attach the unit to the car seat.

1 Attach the headrest mounting bracket to the front seat.

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

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.

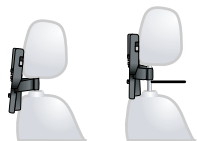


- Close the buckle and adjust the belt until it fits tightly around the headrest.

Side view

DO

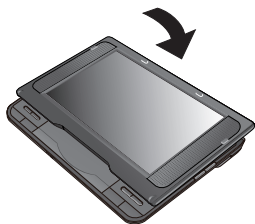
DO NOT



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

2 Adjust the monitor.

Rotate the monitor backwards so the screen is facing out.
→ 4, Adjusting the LCD angle

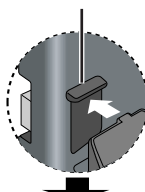


3 Attach the unit to the bracket.

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.

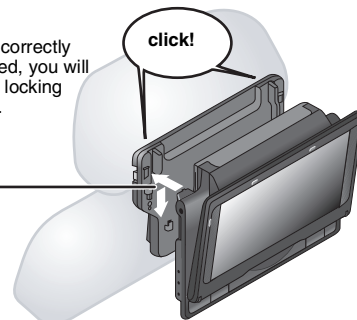
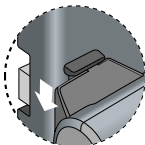
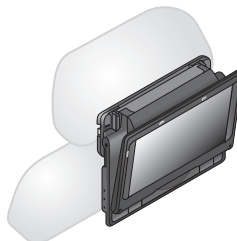
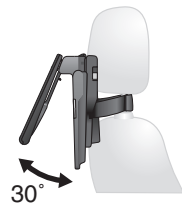


Diagram of the attached bracket and unit

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



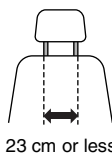
- The angle of the monitor may shift while driving due to vibration, etc.



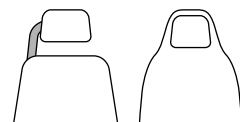
- Depending on the type of headrest, you may not be able to attach the bracket.

DO

DO NOT

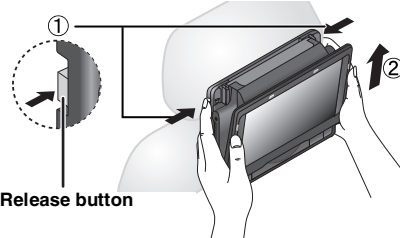


23 cm or less



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

Releasing the unit from the bracket



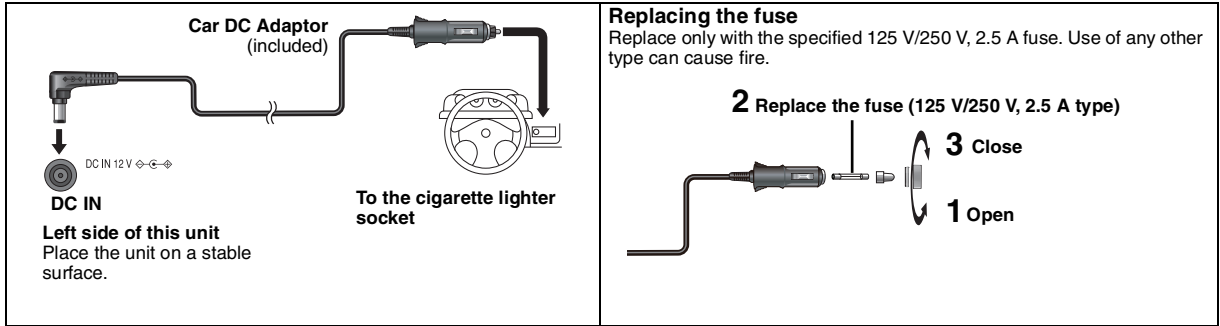
Release button

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

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.



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 (→ 6) may not work.
- Leave some slack in the cord.
- No responsibility will be taken for damage that occurs due to faulty installation.



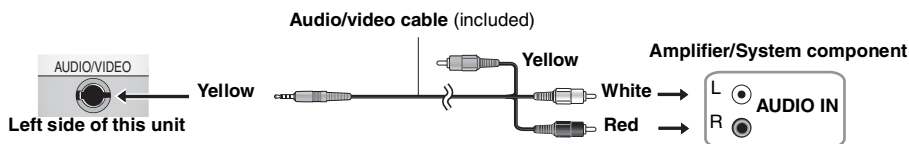
Left side of this unit

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.

Using this unit with other equipment

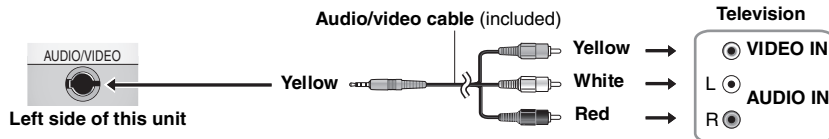
Turn off all equipment before connecting and read the appropriate operating instructions.

Enjoying stereo audio

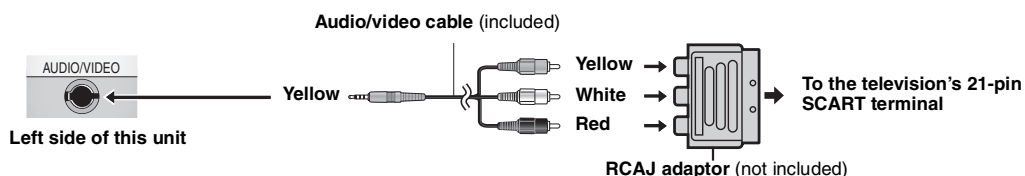


Enjoying with a television

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



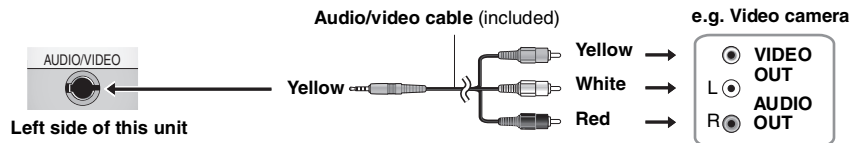
Use the RCAJ adaptor (not included) if your TV has a 21-pin SCART terminal.



- 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.

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.

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.

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^{®9}, JPEG^{4,6,7}, MP3^{2,6}, MPEG4^{5,6}, DivX^{®6,8})
- (3) DVD-R (DVD-Video, DVD-VR^{®9}, JPEG^{4,6,7}, MP3^{2,6}, MPEG4^{5,6}, DivX^{®6,8})
- (4) DVD-R DL (DVD-Video, DVD-VR^{®9})
- (5) DVD-RW (DVD-Video, DVD-VR^{®9}, 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: 8" α-Si, TFT wide-screen LCD (480×234×RGB)

AUDIO/VIDEO output/input:

Output/input terminal: ϕ 3.5 mm mini jack
 Number of terminals: 1 system (output/input selectable)

Composite-video:

Output/input level: 1 Vp-p (75 Ω)

Audio:

Output/input level: 1.5 Vrms (1 kHz, 0 dB, 10 kΩ)

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: 100 dB
- (3) Dynamic range: 90 dB
- (4) Total harmonic distortion: 0.015 %

Speaker:

Output: 0.5 W+0.5 W (10 % Distortion)

Headphone output:

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

Pickup:

Wave length: 655 nm/790 nm (DVD/CD)
 Laser power: CLASS 1M/CLASS 1 (DVD/CD)

Power supply:

DC 12 V (DC IN terminal)/DC 7.2 V (Exclusive battery terminal)

Power consumption

(using included AC adaptor): 11 W (Unit only: 9 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)

CGR-H711 (included):

Voltage: 7.2 V
 Capacity (minimum): 2100 mAh

Dimensions (W×D×H) (excluding protrusions and battery):

242.6 mm (W)×173.5 mm (D)×46.0* mm (H)
 *23.9 mm at lowest point
 (D=173.5 mm including battery)
 (H=46.6 mm including battery)

Mass:

(including battery): approximately 1010 g
 (without battery): approximately 866 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

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 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.

^{*9} CPRM doesn't cope with it.

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. (4) ● 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 (about 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 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. (4)
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).

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. (5) ● 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. (6)
You have forgotten your ratings password.	<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) (12)
No subtitles	<ul style="list-style-type: none"> ● Display the subtitles. (10)
In A-B repeat, point B is automatically set.	<ul style="list-style-type: none"> ● 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.	<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

Picture distorted.	<ul style="list-style-type: none"> ● There may be some video distortion during search, but this is normal. ● Picture quality may worsen or some frames may be skipped when viewing MPEG4, but this is normal. ● DivX Change "Source Select" in Picture Menu. (11)
Picture stops.	<ul style="list-style-type: none"> ● Picture may stop if the DivX files are greater than 2 GB.
No picture on the LCD.	<ul style="list-style-type: none"> ● Check connections. (4) ● Select a LCD-SIZE other than "MONITOR OFF" (No picture). (7, Selecting how to show 4:3 aspect pictures on the LCD)
The LCD is dark.	<ul style="list-style-type: none"> ● Select "DAYLIGHT" or adjust the brightness. (7)
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. (16) ● Check that the television is on. ● Check that the input mode on the television is correct. ● Check the settings of "TV Aspect" in "Video" tab. (13) ● Turn off the zooming feature on your television if you are using Zoom. (12) ● Ensure that the unit is connected directly to the television, and is not connected through a video cassette recorder. (16) ● Use the television to change the aspect. ● Adjust "Just Fit Zoom" in Display Menu. (12)

(Continued on the next page)







Picture incorrect (Continued)

Menu not displayed correctly.	<ul style="list-style-type: none"> Restore the zoom ratio to $\times 1.00$. (12) Set "Subtitle Position" in Display Menu to "0". (12)
Auto zoom function does not work well.	<ul style="list-style-type: none"> Turn off the zooming feature on your television. Use the other preset aspect ratios or manual adjustment. (12) 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". (11) Move unit away from mobile phones. Noise may occur when playing WMA or MPEG4 files.
Effects do not work.	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> The speaker is off if the LCD is closed or headphones are connected. Turn up the volume. (6)
No sound from other speakers.	<ul style="list-style-type: none"> Check all connections and settings. (16)
No sound when you change the play speed.	<ul style="list-style-type: none"> There may be a pause in sound. This is not a malfunction.
No sound.	<ul style="list-style-type: none"> DivX Audio may not be output due to how files were created. (9)

Displays

" 	<ul style="list-style-type: none"> The operation is prohibited by the unit or disc.
No On-Screen display.	<ul style="list-style-type: none"> Select "On" for "On-Screen Messages" in "Display" tab. (13)
"Check the disc." "U11"	<ul style="list-style-type: none"> Clean the disc. (17) You inserted a disc that has not been finalized. (5)
"  ERROR 01"	<ul style="list-style-type: none"> A problem has occurred with the battery pack. Consult your dealer.
"  ERROR 02"	<ul style="list-style-type: none"> The battery pack has been recharging for 20 hours but has failed to recharge for some reason. Recharge again.
"  ERROR 03"	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> 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"	<ul style="list-style-type: none"> You are trying to play incompatible groups or content. (9)
"Authorization Error"	<ul style="list-style-type: none"> 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. (9)
"Rented Movie Expired"	<ul style="list-style-type: none"> The DivX VOD content has zero remaining plays. You cannot play it. (9)

[] and [CHG] indicators

The [] indicator flashes rapidly.	<ul style="list-style-type: none"> The unit has malfunctioned. Consult your dealer.
The [] indicator flashes slowly.	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> Battery pack charge is low. The unit will turn off automatically after a few minutes.

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. (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. (15) You can enjoy video in the back seat with the included Headrest Mounting Bracket. (14)
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.

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Information for Users on Collection and Disposal of Old Equipment and used Batteries



These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries should not be mixed with general household waste. For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points, in accordance with your national legislation and the Directives 2002/96/EC and 2006/66/EC. By disposing of these products and batteries correctly, you 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.

For more information about collection and recycling of old products and batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.

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]

These symbols are only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.



Note for the battery symbol (bottom two symbol examples):

This symbol might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved.

Cd

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 LASERSTRÅLNING NÅR DENNA DEL ÅR ÖPPNAD OCH SPÄRREN ÅR URKOPPLAD. BETRÄKTA EJ STRÅLEN DIREKT GENOM OPTISKT INSTRUMENT.

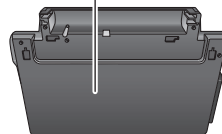
FORSIGTIG - SYNLIIG OG USYNLIIG LASERSTRÅLNING KLASSE 1M. NÅR LÅGET ER ÅBENT OG SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ AT SE LIGE PÅ MED OPTISKE INSTRUMENTER.

VARO - AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTIINA 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)



(Bottom of product)



Panasonic Corporation
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Pursuant to the directive 2004/108/EC, article 9(2)
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Panasonic Marketing Europe GmbH
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