



Panasonic®

Operating Instructions Portable DVD/CD Player Model No. **DVD-LX95**

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 or "ALL".

Region	Number
For the United Kingdom	2
For Asia	3

Example: For the United Kingdom



Operations in these instructions are described mainly with the main unit, but you can do the operations on the remote control if the remote controls are the same (→ Back cover)



MULTI-FORMAT PLAYBACK

DVD-RAM

*recorded with DVD video recorders etc.
Video & Still pictures (JPEG)*

DVD-RW (DVD-VR)

recorded and finalized with DVD video recorders etc.

DVD-Audio/DVD-Video/Video CD/CD

*sold on the market
Movie, Music etc.*

DVD-R/DVD-RW/+R/+RW

*recorded and finalized with DVD video recorders etc.
Video (played as DVD-Video)*

CD-R/CD-RW

*recorded and finalized with personal computers etc.
Music (WMA/MP3), Still pictures (JPEG) &
Video (MPEG4)*

SD

*recorded with Panasonic SD multi cameras, etc.
Still pictures (PICTURE) & Video (VIDEO)*

See pages 8, 9 for details.

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

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

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

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.

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.

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.**

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.

CAUTION!

DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED.

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

AC adaptor

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

But

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

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

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

Marking sign is located on bottom of the unit.

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Caution for AC Mains Lead

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

For your safety, please read the following text carefully.

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

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

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

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

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

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

CAUTION!

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

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

If in any doubt please consult a qualified electrician.

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:
Blue: Neutral, Brown: Live.

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

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

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

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

THIS PLUG IS NOT WATERPROOF—KEEP DRY.

Before use

Remove the connector cover.

How to replace the fuse

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

Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.

Figure A

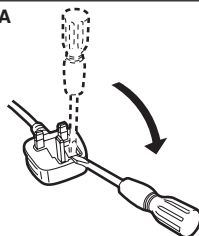
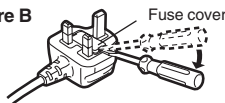


Figure B

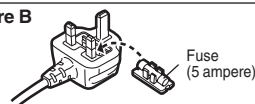


2. Replace the fuse and close or attach the fuse cover.

Figure A



Figure B



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.



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.

Batteries

1. Battery pack (Lithium ion battery pack)

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

2. Button-type battery (Lithium battery)

- Insert with poles aligned.
- Do not touch the terminals (+ and -) with metal objects.
- Do not disassemble, remodel, heat or throw into fire.
- Keep out of reach of children

If any electrolyte should come into contact with your hands or clothes, wash it off thoroughly with water.

If any electrolyte should come into contact with your eyes, never rub the eyes. Rinse eyes thoroughly with water, and then consult a doctor.

3. Disposing of the batteries

Check and follow your local regulations before disposal.

For the United Kingdom

THIS UNIT IS INTENDED FOR USE IN MODERATE CLIMATES.

For Asia

THIS UNIT IS INTENDED FOR USE IN TROPICAL CLIMATES.

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.

Accessories



Use numbers indicated in parentheses when asking for replacement parts.
(Product numbers correct as of April 2005. These may be subject to change.)

- | | |
|--|--|
| ☒ 1 Remote control (N2QAHC000021) | ☐ 1 Car DC Adaptor (RFEC201M) |
| ☐ 1 Button-type battery ^{#1} for remote control
(for replacement, see below) | ☐ 1 VMSS headphones ^{#2} (LOBAD0000178) |
| ☐ 1 Audio/video cable (K2KA6CB00003) | ☐ 1 Rechargeable battery pack (CGR-H703) |
| ☐ 1 AC adaptor (RFEA213W) | |
| ☐ 1 AC mains lead | |
- For the United Kingdom** (RJA0053-3X)
For Asia (K2CQ2CA00006)

For replacement: Available from Panasonic dealers
(CGR-H702), (CGR-H703)

- The included AC mains lead and AC adaptor are for use with this unit only. Do not use them with other equipment.
- ^{#1} Keep out of the small children.

Accidental swallowing of batteries can result in stomach and intestinal damage.

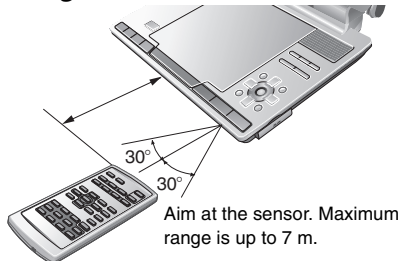
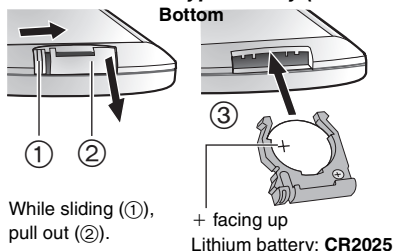
- ^{#2} Discontinue use if you experience discomfort with the headphones or any other parts that directly contact your skin. Continued use may cause rashes or other allergic reactions.

Preparations

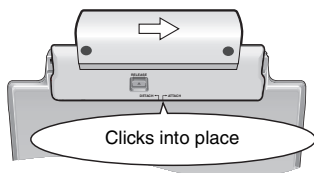
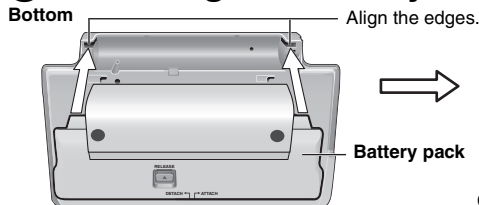
FOR THE UNITED KINGDOM ONLY
READ THE CAUTION FOR THE AC MAINS LEAD ON PAGE 4 BEFORE CONNECTION.

① The remote control

Insert the button-type battery (included) Range of use



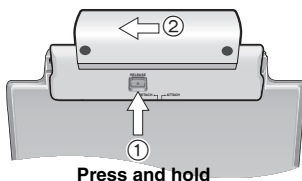
② Attaching the battery (When the unit is off)



Check to make sure it is securely fastened.

Detaching

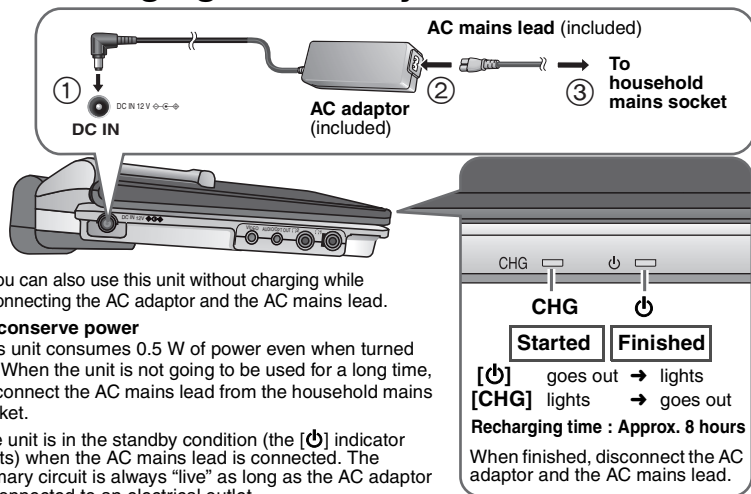
- Turn the unit off before detaching the battery pack.



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.

③ 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.

To conserve power

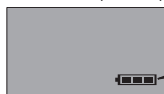
This unit consumes 0.5 W of power even when turned off. When the unit is not going to be used for a long time, disconnect the AC mains lead from the household mains socket.

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.

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).

(screen)



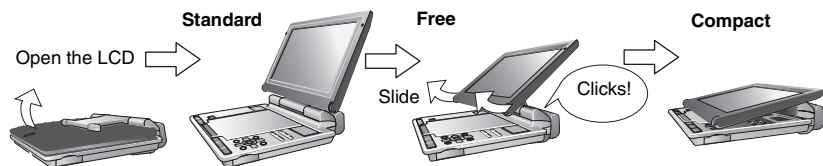
Recharge (Appears automatically when there is only a few minutes of charge remaining.)

Approximate play times (Hours) ※Using optional battery pack (CGR-H702) are shown in parentheses.

Recharging time	Play	Playing time (at room temperature using headphones with key illumination on)			
		LCD brightness level			LCD Off
		-5	0 (factory preset)	+5	
8 (5)	DVD	10 (6)	8 (4)	6 (3)	16 (8)
	SD	12.5 (7.5)	10 (5)	7.5 (4)	20 (10)

- The times indicated above may differ depending on use.
- To change the LCD brightness (→ page 13, Adjusting the picture quality on the LCD/Key illumination ON • OFF).
- Use optional battery pack (CGR-H702) same way as included battery pack (CGR-H703).

④ Adjusting the LCD angle



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

Discs that can be played

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

	DVD-RAM RAM JPEG MPEG4 • RAM Recorded with devices using Version 1.1 of the Video Recording Format (a unified video recording standard), such as DVD video recorders, DVD video cameras, personal computers, etc. • JPEG Recorded with Panasonic SD multi cameras or DVD video recorders using DCF (Design rule for Camera File system) Standard Version 1.0. • MPEG4 Recorded with Panasonic SD multi cameras or DVD video recorders [conforming to SD VIDEO specifications (ASF standard)/MPEG4 (Simple Profile) video system/G.726 audio system].
	• DVD-A Some multi-channel DVD-Audio will prevent down-mixing (→ page 30, Glossary) of all or part of their contents if this is the manufacturer's intention. When playing such discs, or such parts of the disc, unless the number of connected speakers is the same as the disc's channel specification, audio will not be output properly (e.g. part of the audio is missing, multi-channel audio cannot be selected and audio is played in two channels). Refer to the disc's jacket for more information. • DVD-V Some DVD-Audio discs contain DVD-Video content. To play DVD-Video content, select "Play as DVD-Video" (→ page 25, Other Menu).
	DVD-Video DVD-V —
	DVD-R (DVD-Video)/DVD-RW (DVD-Video) DVD-V Discs recorded and finalized* on DVD video recorders or DVD video cameras DVD-RW (DVD-VR) DVD-RW (VR) Discs recorded and finalized* on DVD video recorders or DVD video cameras using Version 1.1 of the Video Recording Format (a unified video recording standard).
—	+R (Video)/+RW (Video) DVD-V Discs recorded and finalized* on DVD video recorders or DVD video cameras
	Video CD VCD Including SVCD (Conforming to IEC62107)
	CD CD WMA MP3 JPEG MPEG4 VCD • This unit can play CD-R/RW recorded with the above formats. Close the sessions or finalize* the disc after recording. • WMA MP3 JPEG This unit also plays HighMAT discs.

*A process that allows play on compatible equipment.

- 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 19, Tips for making WMA/MP3, JPEG and MPEG4 discs (For CD-R/CD-RW)).

■ Discs that cannot be played

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

Cards that can be played



SD Memory Card/miniSD™ Card*

This unit can play the following types of data recorded on an SD Memory Card.

Still pictures **SD PICTURE**

Recorded with Panasonic SD multi cameras or DVD-Video recorders using DCF (Design rule for Camera File system) Standard Version 1.0.

Moving pictures **SD VIDEO**

Recorded with Panasonic SD multi cameras or DVD video recorders (conforming to SD VIDEO specifications (ASF standard)/MPEG4 (Simple Profile) video system/G.726 audio system).

*A miniSD™ card adaptor included with the miniSD™ card is necessary.

- MOTION JPEG and MPEG2 are not supported.
- Some files are not compatible with this unit and cannot be played back. For example:
 - Moving picture files recorded using a digital still camera with moving picture function
- It may not be possible to play the above cards in all cases due to the type of cards, the condition of the recording, the recording method.
- The recording date may differ from that of the actual date.
- Do not remove the card or turn off the unit while the card is being read from ("Reading card..." is on the display) or the unit is using the card. This can corrupt your data.
- Operation is not guaranteed with MultiMediaCard.

■ Suitable SD Memory Cards

- You can use SD Memory Cards with the following capacities (from 8 MB to 1 GB).
8 MB, 16 MB, 32 MB, 64 MB, 128 MB, 256 MB, 512 MB, 1 GB (Maximum)
Please confirm the latest information on the following website. (This site is in English only.)
<http://panasonic.co.jp/pavc/global/cs>
- If the SD Memory Card is formatted or recorded on a PC, you may not be able to use it on this unit.
- This unit supports SD Memory Cards for Panasonic SD multi cameras and DVD video recorders, etc. formatted in FAT 12 system and FAT 16 system based on SD Memory Card Specifications.
- We recommend using a Panasonic SD card.

Structure of folders displayed by this unit

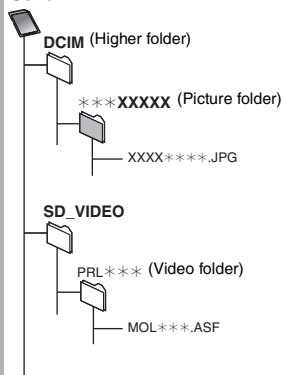
(Files are treated as contents and folders are treated as groups on this unit. However there are no groups with **SD VIDEO**.)

The following  can be displayed on this unit.

***: Numbers

XXX: Letters

Card



- Keep the SD Memory Card out of reach of children. If swallowed, seek medical advice immediately.

Playing discs

1 Open the lid.

OPEN



AV SELECT

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.

RAM Remove discs from their cartridges before use.

Headphone terminals [Q1] [Q2]*
3.5 mm Stereo

3 Press and hold.



The unit turns on and play begins. The button lights green. (To turn off the key illumination → page 13)
When "No Card", "SD" or SD Card Menu is displayed, press [AV SELECT].

4 Adjust the volume.

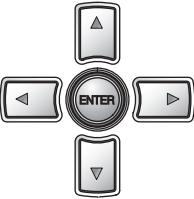


* When using the VMSS headphones (included), use [Q1].

- To play JPEG or MPEG4 files on DVD-RAM that contain both **RAM** and another format (e.g. **JPEG**), select "Play as Data Disc" (→ page 25, 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 32).

Main unit operations

	Turn unit on/play	Press and hold and the power comes on 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. • DVD-V While the message is displayed, press [▶, ON] and the previous chapters are reviewed. Opening the disc lid or pressing [■, -OFF] while "Press PLAY to resume play" appears on the screen cancels the memorized position where play stopped.
	Turn unit off	Press and hold until "OFF" is displayed.

	Skip	Press [◀◀ , ▶▶]. RAM DVD-RW (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 : Does not work.
TOP MENU 	Top menu	DVD-A DVD-V
	Program menu	RAM DVD-RW (VR) (→ page 18)
MENU 	Menu	DVD-V
	Playlist	RAM DVD-RW (VR) (→ page 18)
	Navigation Menu	WMA MP3 JPEG MPEG4 (→ page 17)
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.
	Frame-by-frame	While paused, press [◀ ▶]. VCD [▶] only
	Group skip	WMA MP3 JPEG MPEG4 Press [▲ ▼].

Remote control operations

	Skip	Press [◀◀ , ▶▶].
	Search	Press [◀◀ , ▶▶] (up to 5 steps).
	Slow play	Press [◀◀ , ▶▶] (up to 5 steps) while paused. Press [▶] (PLAY) to return to normal play. VCD [▶▶] only ● MPEG4 : Does not work.
	Enter number	RAM DVD-RW (VR) DVD-A DVD-V VCD CD e.g. To select 12: [≥10] → [1] → [2] VCD with playback control While stopped, press the numbered buttons. WMA MP3 JPEG MPEG4 e.g. To select 123: [1] → [2] → [3] → [ENTER]

● You cannot turn on the unit with the remote control if the unit is powered by the battery pack.

Useful functions for playing discs

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



Press several times during play to select the content to repeat.

- To exit the screen : Press [RETURN].



Repeating a specified section (A-B Repeat)

Except **JPEG MPEG4** and **RAM DVD-RW (VR)** (still picture part)

1

DISPLAY



Press once during play.

2



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

② Press [**▶**] to go to the next menu and [**▲▼**] to select "Play Menu".

③ Press [**▶**] to go to the next menu and [**▲▼**] to select "A-B Repeat".

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

- Press [ENTER] again to cancel.
- To exit the screen : Press [RETURN].



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

1

DISPLAY



Press once during play.

2



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

② Press [**▶**] to go to the next menu and [**▲▼**] 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 [**▶**] (PLAY) to return to normal play.
- After you change the speed
 - Advanced Surround (→ below) and Multi Re-master (→ page 14) do not work.
 - Audio output switches to 2 ch (Digital output switches to PCM).
 - 96 kHz sampling frequency is converted to 48 kHz.
- This may not work depending on the disc's recording.
- To exit the screen : Press [RETURN].

Enjoying virtual surround (Advanced Surround)

RAM DVD-RW (VR) DVD-V VCD (2 or more channels)

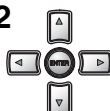
1

DISPLAY



Press once.

2



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

② Press [**▶**] to go to the next menu and [**▲▼**] to select "Audio Menu".

③ Press [**▶**] to go to the next menu and [**▲▼**] to select "Advanced Surround".

④ Press [**▶**] to go to the next menu and [**▲▼**] to select "SP 1 Natural" or "SP 2 Enhanced".

⑤ Press [ENTER].

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

- When **using the 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.
- Do not use in combination with sound effects on this unit (→ page 14, Sound quality) or on other equipment.
- To exit the screen : Press [RETURN].

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

MONITOR MODE Press to select the monitor mode.

NORMAL: Normal

FULL: Stretched horizontally

ZOOM: Stretched vertically and horizontally

OFF: No picture

- If you are not using the LCD on this unit, select "OFF" to conserve power. (The [ON] indicator flashes)
- The LCD turns off automatically if you close it.

Adjusting the picture quality on the LCD/Key illumination ON • OFF

1 **PICTURE MODE/DNR**
Press once.

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

BRIGHT

COLOUR

KEY ILLUMINATION: Selecting "OFF" turns off the key illumination when the unit is on.

• To exit the screen : Press [RETURN].

Changing soundtracks DVD-A DVD-V (with multiple soundtracks)

RAM DVD-RW (VR) VCD

AUDIO Press to select the soundtrack.

(Remote control)

Menu
Audio 1

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

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

RAM DVD-RW (VR) VCD
You can use this button to select "L", "R" or "L R".

DVD-V (Karaoke discs)
Press [◀▶] to select "On" or "Off" for vocals.
Read the disc's instructions for details.

• To exit the screen : Press [RETURN].

Changing subtitles DVD-V (with subtitles) VCD (SVCD with subtitles only)

RAM DVD-RW (VR)

(On/Off only with discs that contain subtitle on/off information)

SUBTITLE

(Remote control)

Menu
Subtitle Off

DVD-V VCD
Press to select the subtitle language.

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

To clear/display the subtitles
Press [◀▶] to select "On" or "Off".

RAM DVD-RW (VR)

Press to select "On" or "Off".

• 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

ANGLE Press to select the angle or rotate the still picture.

(Remote control)

e.g. **DVD-V**

Menu
Angle 1/4

• To exit the screen : Press [RETURN].

Enjoying higher quality audio and video

Reproducing more natural audio (Multi Re-master)

RAM **DVD-RW** **(VR)** **DVD-V** (Discs recorded with 48 kHz only)

DVD-A (Discs recorded with 44.1 kHz and 48 kHz only) **VCD** **CD**

This feature gives you a more natural sound by adding the higher frequency signals not recorded on the disc.

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

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

1 DISPLAY



Press once.

2



- ① Press **[▲▼]** to select **Other Settings**.
- ② Press **[▶]** to go to the next menu and **[▲▼]** to select **"Audio Menu"**.
- ③ Press **[▶]** to go to the next menu and **[▲▼]** to select **"Multi Re-master"**.
- ④ Press **[▶]** and **[▲▼]** to select **"1"**, **"2"** or **"3"**.
- ⑤ Press **[ENTER]**.

- To exit the screen : Press [RETURN].

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

- This feature may not work when connecting with a digital optical cable (→ page 28).
- This may not work depending on the recording conditions.

Sound quality (Only when headphones are connected)

EQ MODE



Press to change.

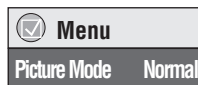
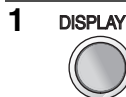
XBS —————→ **VMSS**
 ↑————— **NORMAL** —————↓

XBS: Boosts the bass.

VMSS: The VMSS headphones (included) vibrate making the sound seem more vigorous.

NORMAL: Normal sound

※ Normal headphones do not work.



Press once.

- ① Press [**▲▼**] to select **Other Settings**.
- ② Press [**▶**] to go to the next menu and [**▲▼**] to select **"Picture Menu"**.
- ③ Press [**▶**] to go to the next menu and [**▲▼**] to select **"Picture Mode"**.
- ④ Press [**▶**] to go to the next menu and [**▲▼**] to select **"Normal"**, **"Cinema1"**, **"Cinema2"** or **"User"**.

Cinema1: Mellows images and enhances detail in dark scenes.

Cinema2: Sharpens images and enhances detail in dark scenes.

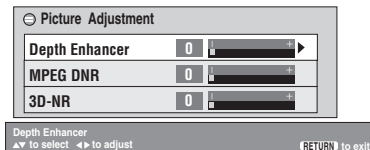
User: Reduces noise in moving pictures.

- ⑤ Press [**ENTER**].

Only when **"User"** is selected

1. Press [**▲▼**] to select **"Picture Adjustment"**.

2. Press [**ENTER**] and [**▲▼**] to select **"Depth Enhancer"**, **"MPEG DNR"** or **"3D-NR"**.



–**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.

–**3D-NR:** Reduces overall noise.

3. Press [**ENTER**] and [**◀▶**] to adjust (**Depth Enhancer:** 0 to +4, **MPEG DNR:** 0 to +3, **3D-NR:** 0 to + 4).

Even if you press [**PICTURE MODE/DNR**] twice, the **"Picture Adjustment"** screen is displayed.

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

- This may not work depending on the recording conditions.

All group/Program/Random play

Remote control only

DVD-A DVD-V VCD CD WMA MP3 JPEG MPEG4

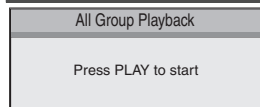


While stopped
Press to change.

All group (DVD-A) → Program play → Random play
↑ Off (Normal play) ←

- Disable HighMAT disc play to use random and program play.
Select "Play as Data Disc" in Other Menu. (→ page 25).

All group play DVD-A

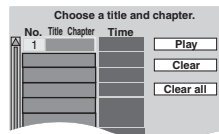


PLAY



Program play (up to 32 items)

e.g. DVD-V



1



Press to select an item
(Disc → page 11,
Enter number).

2

(SD card → page 21,
Enter number).
Repeat this step to program
other items.

PLAY



Selecting all the items (on the disc or in the title or group)

Press [ENTER] and [▲▼] to select "ALL", then press [ENTER] again to register.

Changing the program

Press [▲▼] to select an item.

–To change an item, repeat step 1.

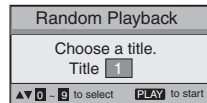
–To clear an item, press [CANCEL] (or select "Clear" and press [ENTER]).

Clearing the whole program

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

Random play

e.g. DVD-V



1



Press to select a group
or a title.

2

(Disc → page 11,
Enter number).

(SD card → page 21,
Enter number).

PLAY



To exit the all group, program or random mode

Press [PLAYMODE] several times while stopped.

Playing data discs WMA MP3 JPEG MPEG4

Select "Play as Data Disc" (→ page 25, Other Menu) to play JPEG or MPEG4 files on DVD-RAM that contain both RAM and another format (e.g. JPEG) or to play HighMAT discs without using the HighMAT function.

Playing items in order (Playback Menu)



While the menu is displayed

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

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

Playing from the selected item (Navigation Menu)



Press.



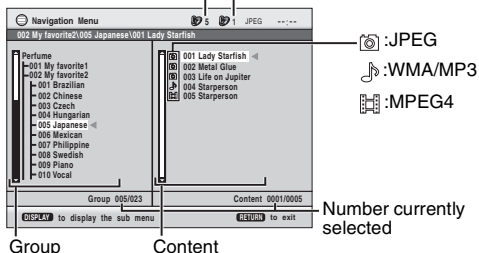
Press [**▲▼◀▶**] to select the group and press [**ENTER**].

- 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



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

■ Using the submenu

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

- 1 Press [**DISPLAY**].
- 2 Press [**▲▼**] to select the submenu (→ see right) 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	WMA/MP3, JPEG and MPEG4
Audio	WMA/MP3 only
Picture	JPEG only
Video	MPEG4 only
Help display	To switch between guide messages and the elapsed play time 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". (→ 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**].



Playing HighMAT™ discs WMA MP3 JPEG



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

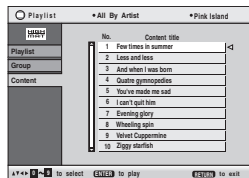


Menu:
Takes you to the next menu which
shows playlists or another menu.
Playlist:
Play starts.

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

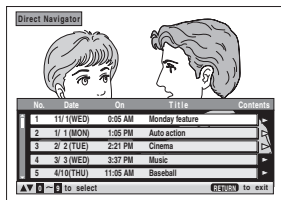


Playing programs/playlists on RAM/DVD-RW (DVD-VR) discs RAM DVD-RW (VR)

- 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.

- You can also use the **numbered buttons** on the remote control (→ page 11).
- Press [**▶**] to show the contents of the program (Only when playing the program).
- To exit the screen : Press [**TOP MENU**] or [**MENU**].

Playing CD CD

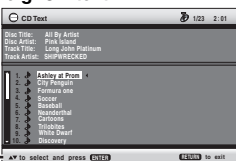
Titles appear with CD text playback.

1

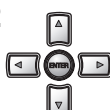
MENU



e.g. CD text



2



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

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

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

Tips for making WMA/MP3, JPEG and MPEG4 discs (For CD-R/CD-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.
- If groups were created away from the root like "002 group" in the illustration below, the eighth one and onwards are 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 content 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).

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

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

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

- Compatible compression rate: between 32 kbps and 320 kbps
- Compatible sampling rate: 8, 11.02, 12, 16, 22.05, 24, 32, 44.1, and 48 kHz
- This unit is not compatible with ID3 tags.

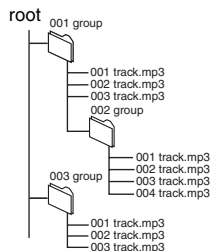
JPEG (Extension: ".JPG", ".jpg", ".JPEG" or ".jpeg")

- JPEG files taken on a digital camera that conform to the DCF Standard Version 1.0 are displayed.
 - Pictures taken using digital camera functions not supported by DCF like automatic picture rotation may not be 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 (Extension: ".ASF", or ".asf")

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

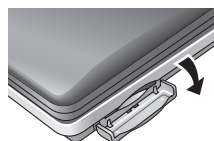
e.g. MP3



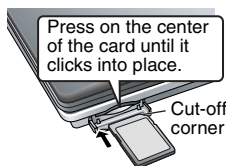
Playing SD cards

1 Insert the card.

1 Open the cover.



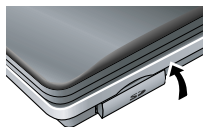
2 Insert the card.



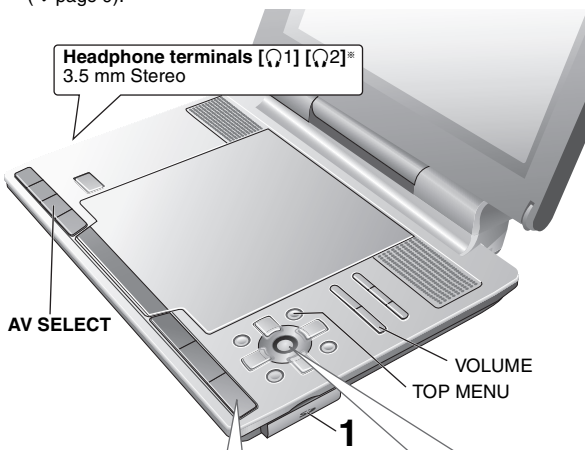
- If you are using a miniSD™ card, insert it into the miniSD™ card adaptor that comes with the card. Insert and remove this adaptor from the unit.



3 Close the cover.



- You can use SD Memory Cards with capacities from 8 MB to 1 GB (→ page 9).



2 Press and hold.



The unit turns on and SD Card Menu is displayed. The button lights green. (To turn off the key illumination → page 13)
When the SD Card Menu is not displayed, press [AV SELECT].

■ Remove the card

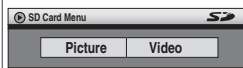
- 1 Open the cover.
- 2 Press on the center of the card.
- 3 Pull it straight out.



3



- 1 Press [◀▶] to select "Picture" or "Video".



2 Press [ENTER].

Play begins.

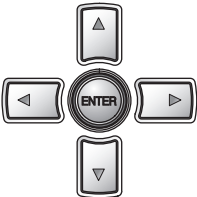
- **SD VIDEO** Adjust the volume.
- When "No picture content" or "No video content" is displayed, press [TOP MENU] to return to the SD Card Menu.

* When using the VMSS headphones (included), use [Q1].

- While stopped, the unit automatically turns off once 15 minutes (after approximately 5 minutes when using the battery pack) have elapsed.
- If you are experiencing problems, refer to troubleshooting guide (→ page 32).

Main unit operations

	Turn unit on	Press and hold and the power comes on and SD Card Menu (→ above) is displayed.
	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. Pressing [■, -OFF] while "Press PLAY to resume play" appears on the screen, removing the card or Pressing [AV SELECT] cancels the memorized position where play stopped.
	Turn unit off	Press and hold until "OFF" is displayed.
	Skip	Press [◀◀, ▶▶].
	Search	SD VIDEO Press and hold [◀◀, ▶▶] (up to 5 steps).
	SD Card Menu	[→ page 22, Playing items in order (SD Card Menu)]
	Navigation Menu	[→ page 22, Playing from the selected item (Navigation Menu)]
	Return	Returns to the previous screen.
	Menu operation	Press [▲ ▼◀▶] to select an item and press [ENTER] to confirm.
	Group skip	SD PICTURE Press [▲ ▼].

Remote control operations

	Skip	Press [◀◀, ▶▶].
	Search	SD VIDEO Press [◀◀, ▶▶] (up to 5 steps).
	Enter number	e.g. To select 123: [1] → [2] → [3] → [ENTER]

- You cannot turn on the unit with the remote control if the unit is powered by the battery pack.

Useful functions for playing SD cards

Playing items in order (SD Card Menu)

1 TOP MENU 2



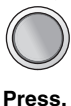
Press [**◀▶**] to select “Picture” or “Video” and press [**ENTER**].

The SD Card Menu disappears.

- When “No picture content” or “No video content” is displayed, press [**TOP MENU**] again to return to the SD Card Menu.

Playing from the selected item (Navigation Menu)

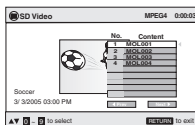
1 MENU 2



SD VIDEO

Press [**▲▼◀▶**] to select the content.

- To show other pages: Press [**▲▼◀▶**] to select “Prev” or “Next” and press [**ENTER**].



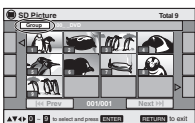
SD PICTURE

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

- To show other pages: Press [**▲▼◀▶**] to select “Prev” or “Next” and press [**ENTER**].

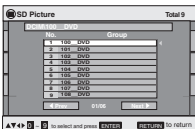
To select contents in the other group

- ① Press [**▲**] to select “Group” and press [**ENTER**].



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

- To show other pages: Press [**▲▼◀▶**] to select “Prev” or “Next” and press [**ENTER**].



- ③ Press [**▲▼◀▶**] to select the content and press [**ENTER**].

- To show other pages: Press [**▲▼◀▶**] to select “Prev” or “Next” and press [**ENTER**].

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

The following operations are possible with SD cards, too.
The operations are the same as operations while playing a disc.

Repeat play (→ page 12)

SD PICTURE Groups repeat only.

SD VIDEO Contents repeat only.

Selecting how to show 4:3 aspect pictures on the LCD (→ page 13)

Adjusting the picture quality on the LCD/Key illumination ON • OFF
(→ page 13)

Still picture rotation **SD PICTURE** (→ page 13)

Sound quality (→ page 14)

Picture Mode (→ page 15)

Program/Random play (→ page 16)

All group play does not work.

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.

- Press [**◀**] to go to the previous menu.
- Items shown differ depending on the type of software.
- There are items which you can select using the **numbered buttons** and [**ENTER**] on the remote control.
- If the setting does not change, press [**ENTER**].
- To finish, press [**RETURN**].

Main menus

Program, Group, Title Chapter, Track, Playlist Content	To start from a specific item
Time	To skip incrementally or decrementally* (Time Slip for play only) 1. Press [ENTER] twice to show Time Slip indicator. 2. Press [▲▼] to select the time and press [ENTER]. • Press and hold [▲▼] to alter faster. To start from a specific time* (Time Search) To change remaining/elapsed time display
Video	To display pixel number
Audio	(→ page 13, Changing soundtracks) To display the current bitrate or sampling frequency
Still Picture	To switch still picture
Thumbnail	To show thumbnail images
Subtitle	(→ page 13, Changing subtitles)
Marker (VR)	To recall a marker recorded on DVD-Video recorders
Angle	(→ page 13, Angle select)
Rotate Picture	(→ page 13, Still picture rotation)
Slideshow	To turn on/off slideshow To change the slideshow timing (0 to 30 sec)
Other Settings	(→ See below)

* Except +R/+RW

Other Settings

Play Speed	(→ page 12, Changing play speed)
-------------------	----------------------------------

Play Menu (Only when the elapsed play time can be displayed,
JPEG | SD PICTURE: The Repeat and Marker functions can be used.)

Repeat	(→ page 12, Repeat play)
A-B Repeat	(→ page 12, A-B Repeat)
Marker Except RAM DVD-RW (VR)	To mark up to 5 positions to play again [ENTER] (The unit is now ready to accept markers.) To mark a position: [ENTER] (at the desired point) To mark another position: [◀▶] to select "*" → [ENTER] To recall a marker: [◀▶] → [ENTER] To erase a marker: [◀▶] → [CANCEL] (Remote control) • This feature doesn't work during program and random play. • Markers you add clear when you open the disc lid, remove the card, press [AV SELECT] or switch the unit to standby.

Picture Menu

Picture Mode (→ page 15, Picture Mode)

Audio Menu

Advanced Surround (→ page 12, Enjoying virtual surround)

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

Multi Re-master (→ page 14, Reproducing more natural audio)

Display Menu

Information On ↔ Off (**JPEG** **SD PICTURE** **MPEG4** **SD VIDEO**: Off, Date, Details)

Subtitle Position 0 to -60 (in of 2 units)

Subtitle Brightness Auto, 0 to -7

Just Fit Zoom **RAM** **DVD-RW (VR)** **DVD-V** **VCD**
 To expand the letterbox picture to fit the screen.
 Press [**▲▼**] to select the preset aspect ratio or "Auto".
 Auto ↔ 4:3 Standard ↔ European Vista ↔ 16:9 Standard
 ↑ ↓
 Cinemascope2 ↔ Cinemascope1 ↔ American Vista
MPEG4 **SD VIDEO**
 Standard ↔ Original
 ↑ ↓
 Full

Manual Zoom **RAM** **DVD-RW (VR)** **DVD-V** **VCD** **MPEG4** **SD VIDEO**
 Press [**▲▼**] for fine adjustments. (Press and hold to alter faster.)
 -from ×1.00 to ×1.60 (in 0.01 units), -from ×1.60 to ×2.00 (in 0.02 units)
MPEG4 **SD VIDEO** only
 -from ×2.00 to ×4.00 (in 0.05 units)
 • It may not be possible to zoom up to ×4.00 depending upon the connected television and its settings.

Bit Rate Display **RAM** **DVD-RW (VR)** **DVD-V** **VCD** **MPEG4** **SD VIDEO** On ↔ Off

GUI See-through On ↔ Off

Other Menu

Setup (→ page 26, Changing the player settings)

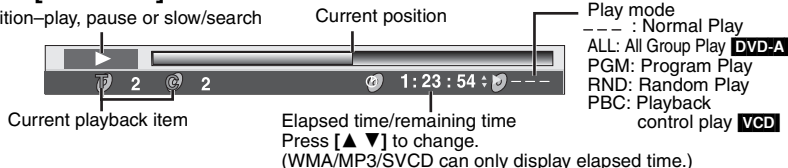
Play as DVD-Video
 or
Play as DVD-Audio Select "Play as DVD-Video" to play DVD-Video contents on DVD-Audio.

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

Checking the play status (Elapsed play time indicator)

Press [DISPLAY] twice.

Condition—play, pause or slow/search



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

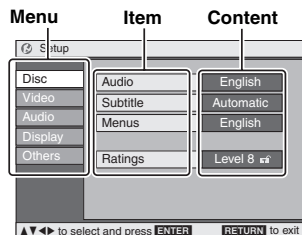
Changing the player settings

- Referring to pages 26 to 27, change as required.
- Underlined items are the factory presets.

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



Press [**▲ ▼ ◀ ▶**] to select the menu, item, content and press [**ENTER**].



- To return to the previous screen, press [**RETURN**].
- To finish the Setup menu, press [**SETUP**].
- The menu is also displayed using on-screen menus. (→ page 25, "Setup" in Other Menu)

"Disc" tab

Audio	- English - French - Spanish - Original (The original language designated on the disc is selected) - Other*****
Subtitle	- Automatic (If the language selected for "Audio" is not available, subtitles appear in that language (If available on the disc).) - English - French - Spanish - Other*****
Menus	- English - French - Spanish - Other*****
Ratings Set a ratings level to limit DVD-Video play. Follow the on-screen instructions.	Setting ratings (When level 8 is selected) 8 No Limit 1 to 7: Prohibits play corresponding to ratings recorded on the disc. 0 Lock All: To prevent play of discs without ratings levels. When setting a ratings level, a password screen is shown. Follow the on-screen instructions. Do not forget your password. A message screen will be shown if a DVD-Video exceeding the ratings level is inserted in the unit. Follow the on-screen instructions.

*Input a code number referring to the table on page 27.

"Video" tab

TV Aspect Choose the setting to suit your television and preference.	4:3 Pan&Scan: Regular aspect television (4:3) The sides of the widescreen picture are cut off so it fills the screen (unless prohibited by the disc). 4:3 Letterbox: Regular aspect television (4:3) Widescreen picture is shown in the letterbox style. 16:9: Widescreen television Use the television's screen modes to change the way the picture is shown.	
Still Mode Specify the type of picture shown when paused.	- Automatic - Field: The picture is not blurred, but picture quality is lower. - Frame: Overall quality is high, but the picture may appear blurred.	
NTSC Disc Output Choose PAL 60 or NTSC output when playing NTSC discs.	- PAL60: 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 and MPEG4.	- 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

PCM Digital Output*	Check the digital input limitations of the equipment you connect and select the maximum sampling frequency of PCM digital output. ● 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 Signals from copy-protected discs are converted to 48 or 44.1 kHz. Some equipment cannot handle sampling frequencies of 88.2 kHz, even if it can handle 96 kHz. Read your equipment's operating instructions for details.	
Dolby Digital*	● Bitstream ● PCM	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.)
DTS Digital Surround*	● Bitstream ● PCM	
MPEG* (Except Asia)	● PCM ● Bitstream	
Dynamic Range Compression	● 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.)	
Audio during Search Choose whether to have sound during search	● On ● Off	

*Only when connected using a digital optical cable (→ page 28)

“Display” tab

Menu Language	● English ● Français ● Español
On-Screen Messages	● On ● Off
Background during Play Select background during JPEG and MPEG4 playback.	● Black ● Grey Asia: ● Black ● Gray

“Others” tab

Re-initialize Setting This returns all values in the Setup menus to the default settings.	● Yes: The password screen is shown if “Ratings” (→ page 26) 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. * Asia: Initialized ● No
---	---

Language code list

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

Using this unit with other equipment

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

Enjoying with 5.1ch audio

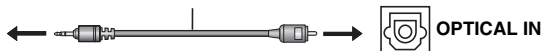
Left side of this unit



Digital optical cable (not included)

- Do not bend sharply.
- Align and insert.

AV amplifier with Dolby Digital/DTS logo (→ below)



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

- Change "PCM Digital Output", "Dolby Digital", "DTS Digital Surround" and "MPEG (Except Asia)" (→ page 27).
- **DVD-A** Output will be only 2 channels.

Dolby Digital/DTS logo



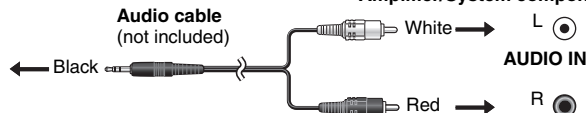
Enjoying stereo audio

Left side of this unit



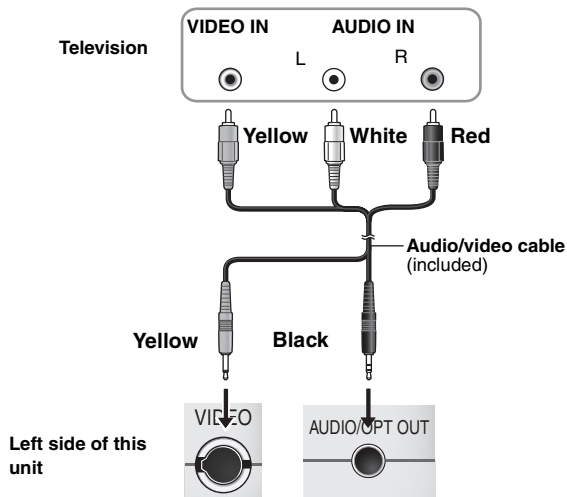
Audio cable (not included)

Amplifier/System component



Television connections

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

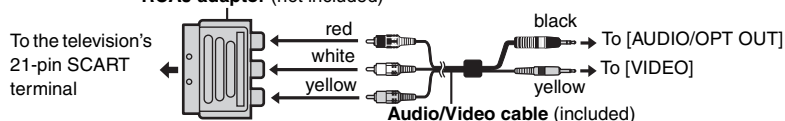


- The unit's speakers do not have magnetic shielding. Do not place the unit near televisions, personal computers or other devices easily influenced by magnetism. Do not keep this unit and magnetized cards (bank cards, commuter passes, etc.) close together.
- If you raise the volume on the television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

For the United Kingdom

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

RCAJ adaptor (not included)



When using 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.

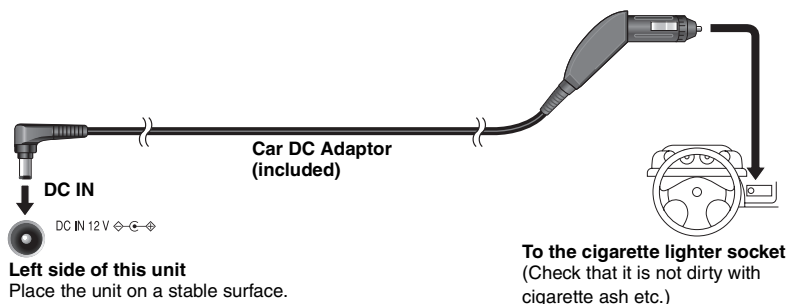
Driver operation or viewing of this unit while the vehicle is moving will cause distraction which may result in serious accident and personal injury or property damage.

Use included Car DC Adaptor (→ see below).

Connections

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

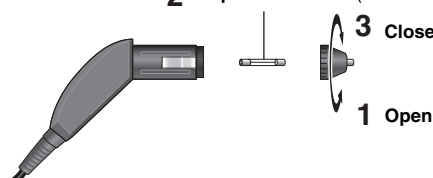
- Connect to the cigarette lighter socket of a vehicle that has a 12 V battery. It is not compatible with a vehicle that has a 24 V battery.
- This is a special negative grounded Car DC Adaptor. Using this Car DC Adaptor with a plus grounded car can cause malfunction and lead to fire.



Replacing the fuse

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

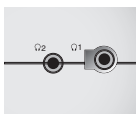
2 Replace the fuse. (125 V/250 V, 2.5 A type)



Cautions

● To avoid draining your car battery

- Disconnect the Car DC Adaptor from the cigarette lighter after use. The Car DC Adaptor continues to consume some power even if it is not being used, and if a battery pack is attached to this unit, it will start recharging which uses more power.
- Do not use the Car DC Adaptor for long periods when the engine is not running.
- Do not recharge the battery pack with this Car DC Adaptor. Use the AC adaptor included with this unit.
- When starting an engine, pull Car DC Adaptor out of the cigarette lighter socket. Mishandling of the Car DC Adaptor can cause malfunction.
- No responsibility will be taken for damage that occurs due to faulty installation.
- Leave some slack in the cord.



(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.

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. (28) DVD-A: This unit plays DVD-Audio in 2 channels. You cannot play multi channel surround sound.
Can I play a DVD-Video bought in another country?	You can only play DVD-Video if their region number is the same or includes the same region number as the unit or if the DVD-Video is marked "ALL". Confirm the region number for the unit on the bottom panel. Check the disc jacket. (Cover)
Can I use on an airplane or in a hospital?	Electromagnetic waves that are emitted from this unit may affect equipment on an airplane or in a hospital. Please obey the rules and/or instructions indicated by the hospital or airline.
Can I use in a car?	You can use this unit by connecting with the included Car DC Adaptor for power. Damage may occur if you do not use the specified car adaptor. (29)
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.

Glossary

Down-mixing

This is a process of remixing the multi-channel audio (surround sound) on some discs into two channels. When you want to listen to the audio on a DVD with a 5.1 channel digital surround track through your television speakers, the down-mixed audio will be output.

Some DVD-Audio prevent down-mixing of all or part of their contents. When playing such discs, or such parts of the disc, unless the number of connected speakers is the same as the disc's channel specification, audio will not be output properly.

MPEG4

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

Sampling frequency

Sampling is the process of converting the heights of sound wave (analog signal) samples taken at set periods into digits (digital encoding). Sampling frequency is the number of samples taken per second, so larger numbers mean more faithful reproduction of the original sound.

Specifications

Operating temperature range:

+5 °C to +35 °C

Operating humidity range:

5 % to 85 % RH (no condensation)

Discs played (8 cm or 12 cm):

- (1) DVD (DVD-Video, DVD-Audio)
- (2) DVD-RAM (DVD-VR, JPEG^{≠1,2,3}, MPEG4^{≠2,4})
- (3) DVD-R (DVD-Video)
- (4) DVD-RW (DVD-Video, DVD-VR)
- (5) + R/RW (Video)
- (6) CD, CD-R/RW [CD-DA, Video-CD, SVCD^{≠5}, MP3^{≠2,6}, WMA^{≠2,7}, JPEG^{≠1,2,3}, MPEG4^{≠2,4}, HighMAT Level 2 (Audio and Image)]

SD Playback^{≠8,9,10}:

Picture Playback: JPEG^{≠3,11,12}

Video Playback: MPEG4^{≠4,12}

Signal system: PAL/PAL60 (NTSC) selectable

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

Composite-video output:

Output level: 1 Vp-p (75 Ω)

Output terminal: Mini-jack

Number of terminals: 1 system

Audio output:

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

Output terminal: 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)
 - DVD-Audio:
 - 4 Hz to 88 kHz (192 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)

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):
14 W (Unit only: 11 W)

Power consumption in Standby mode

(using included AC adaptor):

approx. 0.5 W

Power consumption in Recharge mode

(using included AC adaptor):

18 W

AC adaptor:

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

Power consumption: 28 W

DC output: 12 V, 1.5 A

Car DC Adaptor:

DC input: 12 V, 20 W

DC output: 12 V, 1.5 A

Battery pack (lithium ion)

CGR-H703:

Voltage: 7.2 V

Capacity: 8600 mAh

Dimensions (W×D×H)

(excluding protrusions and battery):

235.4 mm×178.6 mm×39.0 mm

^{≠29.9 mm at lowest point}

(D=201.4 mm including battery)

(H=51.5 mm including battery)

Mass (including battery):

1320 g

Note

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

- ^{≠1} Exif Ver 2.1 JPEG Baseline files
Picture resolution: between 160×120 and 6144×4096 pixels (Sub sampling is 4:2:2, 4:2:0 or 4:4:4)
- ^{≠2} The total combined maximum number of recognizable audio, picture and movie contents and groups: 4000 audio, picture and movie contents and 400 groups.
- ^{≠3} Extremely long and slender pictures may not be displayed.
- ^{≠4} 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
- ^{≠5} Conforming to IEC62107
- ^{≠6} MPEG-1 Layer3, MPEG-2 Layer3
- ^{≠7} Windows Media Audio Ver 9.0 L3, Not compatible with Multiple Bit Rate (MBR)
- ^{≠8} Useable memory capacities: 8 MB, 16 MB, 32 MB, 64 MB, 128 MB, 256 MB, 512 MB, 1 GB
- ^{≠9} SD card formatted with equipment conforming to SD File System specifications Ver. 1.01 such as Panasonic SD multi cameras or DVD video recorders (Conforming to FAT 12 standard and FAT 16 standard)
- ^{≠10} miniSD™ card is supported (miniSD™ adaptor is required.)
- ^{≠11} Conforming to SD Picture specifications
Picture resolution: between 160×120 and 6144×4096 pixels (Sub sampling is 4:2:2, 4:2:0 or 4:4:4)
- ^{≠12} The total combined maximum number of recognizable picture and video files and folders
Picture: 4000 files and 398 folders
Video: 4000 files and 398 folders

Troubleshooting guide

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

The following do not indicate malfunction.

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

Power

No power.	• Check connections to the AC adaptor or battery pack. (6, 7) • You cannot turn on the unit with the remote control if the unit is powered by the battery pack. • The unit has protection circuitry that is activated if it becomes too hot or too cold. The unit will not work if this occurs. Use the unit between 5 °C and 35 °C.
Unit turns off automatically.	• The unit turns off after it has been stopped for about 15 minutes (5 minutes when the unit is powered by the battery pack) to conserve power. Turn the unit on again.
Cannot charge or the [CHG] indicator fails to light.	• The battery pack can only be recharged when the unit is off. • The charging time increases when the temperature is too hot or too cold, and charging may not be possible under some circumstances. • Check connections to the AC adaptor or battery pack. (6, 7)
Play time dramatically reduced after recharging.	• The battery pack has reached the end of its service life (It can be recharged about 300 times).

No operation

No response when any buttons pressed.	• This unit cannot play discs or cards other than the ones listed in these operating instructions. (8, 9) • 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.
No response when remote control buttons pressed.	• Check that the battery is installed correctly. (6) • The battery is depleted: Replace it with new one. (6) • Point the remote control at the remote control sensor and operate. (6)
You have forgotten your ratings password. Reset all the settings to Factory Preset.	• While stopped, press and hold [◀◀] and [] on the unit and then also press and hold [▶, ON] on the unit until "Initialised=" disappears from the screen. Turn the unit off and on again. All settings will return to the default values.
No picture or sound.	• Asia: Initialized • Check that the disc or card has something recorded on it.
The contents of the SD card cannot be read.	• The card format is not compatible with the unit. (The contents on the card may be damaged.) This unit supports SD Memory Cards for Panasonic SD multi cameras and DVD video recorders, etc. formatted in FAT 12 system and FAT 16 system based on SD Memory Card Specifications. (9) • The card contains a folder structure and/or file extensions that are not compatible with this unit.

Specific operation impossible or incorrect

It takes time before play starts. [MP3]	Play may take time to begin when an MP3 track has still picture data. Even after the track starts, the correct play time will not be displayed; however, this is normal.
The program and random play functions do not work. [DVD-V]	These functions do not work with some DVD-Videos.
Menu doesn't appear. [VCD] with playback control	Press [■] twice and then press [▶] (PLAY).
The on-screen menu shows "2" as a soundtrack option when [AUDIO] is pressed, but the audio does not change. [DVD-A]	Even if a second soundtrack isn't recorded, two numbers will normally be shown.
Play restarts from the beginning of the track when soundtrack is changed. [DVD-A]	This is normal on DVD-Audio.
Subtitle position is wrong.	Adjust the position. ("Subtitle Position" in Display Menu) (25)
No subtitles.	Display the subtitles. (13)
In A-B repeat, point B is automatically set.	The end of an item becomes point B when it is reached.
Play doesn't start.	- This unit may not play MP3, WMA and MPEG4 that contains still picture data. - If a disc contains CD-DA ([CD]) and other formats, proper playback may not be possible.

Picture incorrect

Picture distorted.	Picture quality may worsen or some frames may be skipped when viewing MPEG4, but this is normal.
No picture on the LCD.	Select a monitor mode other than "OFF" (no picture). (13, Selecting how to show 4:3 aspect pictures on the LCD)
The LCD is dark.	Adjust the brightness. (13, Adjusting the picture quality on the LCD)
LCD pixels turn black or radiate different colors.	The LCD is constructed with precision technology so 99.99 % of the pixels are active, but of the remaining of 0.01 %, there are pixels that may be black or emit light constantly. This phenomenon is not a malfunction.
Picture doesn't appear on the television (or the size of the picture seems wrong).	- Check connections. (28) - Check that the television is on. - Check that the input mode on the television is correct. - Check the settings in "Video—TV Aspect". (26) - Turn off the zooming feature on your television if you are using Zoom. (25) - Ensure that the unit is connected directly to the television, and is not connected through a video cassette recorder. (28)
Menu not displayed correctly.	- Restore the zoom ratio to $\times 1.00$. (25) - Set "Subtitle Position" in Display Menu to "0". (25)
Auto zoom function does not work well.	- Use the other preset aspect ratios or manual adjustment. (25) - Zoom function may not work well, especially in dark scenes and may not work depending on the type of disc.

Troubleshooting guide

Sound incorrect

Sound distorted.	- Select "Off" in "Advanced Surround". (12) - Move unit away from mobile phones. - Noise may occur when playing WMA files. - The disc may have restrictions on the method of audio output. With some multi-channel discs, unless the number of connected speakers is the same as the disc's channel specification, audio will not be output properly. Refer to the disc's jacket for more information. DVD-A - There may be some noise output when playing MPEG4, but this is normal.
Piercing noise comes from the speakers.	If you have connected a digital amplifier which does not include decoder, be sure to select "PCM" in "Dolby Digital", "DTS Digital Surround" or "MPEG (Except Asia)" in "Audio" tab. (27)
Effects do not work.	- None of the audio effects work when the unit is connected through the digital optical cable and is outputting bitstream signals. (28) - Some audio effects do not work or have less effect with some discs. - Advanced Surround and Multi Re-master do not work if you have changed the play speed.
No sound from the unit's speaker.	- The speaker is off if the LCD is closed or headphones are connected. - Turn up the volume. (10, 20)
No sound from other speakers.	Check all connections and settings. (28)
No sound when you change the play speed.	There may be a pause in sound.

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 (12) - PCM Digital Output: Up to 48 kHz (27) - Dolby Digital/DTS Digital Surround/MPEG (Except Asia): PCM (27)
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Displays

" 	The operation is prohibited by the unit or disc.
No On-Screen display.	Select "On" for "On-Screen Messages" in "Display" tab. (27)
"Check the disc."	Clean the disc. (35)
 ERROR 01"	A problem has occurred with the battery pack. Consult your dealer.
 ERROR 02"	The battery pack has been recharging for 12 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 °C to +35 °C).
"H   stands for a number.	- Trouble has occurred. The number appearing after "H" depends on the problem. Turn the unit off and on again. Alternatively, turn the unit off, disconnect the power source (AC or battery pack), reconnect the power and turn the unit on again. - If the service numbers fail to clear, note the service numbers and consult your dealer.
"Cannot display group xx, content xx"	You are trying to play incompatible groups or content. (9, 19)

[⏻] 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. (34)

The [CHG] indicator flashes slowly.

- Battery pack charge is low. The unit will turn off automatically after a few minutes.

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 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.

Card handling precautions

Do not detach the label and do not attach other labels.

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

To prevent damage

Avoid the following:

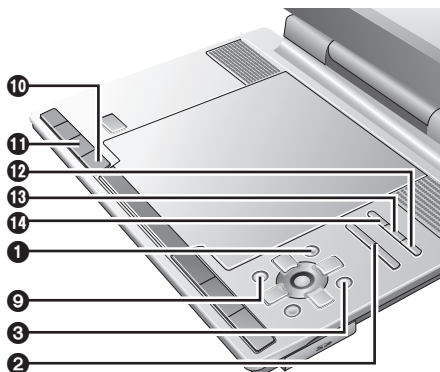
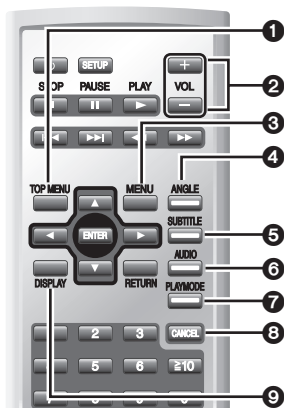
- Spraying flammable insecticides near the unit.
- Pressing the LCD.
- Touching the lens and other parts of the laser pickup.

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.

Main feature index



- ① Showing a **disc top menu** (→ page 11)
Showing a **Playback Menu** (→ page 17)
Showing a **SD Card Menu** (→ page 22)
Showing a **program list** (→ page 18)
- ② Adjusting the **volume** (→ pages 10, 20)
- ③ Showing a **disc menu** (→ page 11)
Showing a **Navigation Menu** (→ pages 17, 22)
Showing a **playlist** (→ page 18)
- ④ Changing **angles** (→ page 13)
Rotating still picture (→ page 13)
- ⑤ Changing **subtitles** (→ page 13)
- ⑥ Changing **soundtracks** (→ page 13)
- ⑦ **All group/program/random play**
(→ page 16)
- ⑧ Clearing an item (→ page 16)
- ⑨ Showing **On-Screen Menus** (→ page 24)
- ⑩ Selecting the content to **repeat** (→ page 12)
- ⑪ Selecting **disc or SD** (→ pages 10, 20)
- ⑫ Changing **sound quality (headphones)**
(→ page 14)
- ⑬ Adjusting the **picture quality/**
key illumination on/off (→ page 13)
- ⑭ Selecting how to **show 4:3 aspect pictures**
(→ page 13)

CAUTION - VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.	
VARNING	- SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRÄKTA EJ STRÅLEN.
ADVARSEL	- SYNLIG OG OSYNLIG LASERSTRÅLING VED ÅBNING. NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.
ADVARSEL	- SYNLIG OG OSYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES OG SIKKERHEDSLÅS BRYTES. UNDGÅ EKSPONERING FOR STRÅLEN.
VARO!	- AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYYÄÄ JA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VORSICHT	- SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET UND SICHERHEITSVERRIEGELUNG ÜBERBRÜCKT. NICHT DEM STRAHL AUSSETZEN.
ATTENTION	- RAYONNEMENT LASER VISIBLE ET INVISIBLE. DANGEREUX EN CAS D'OUVERTURE ET LORSQUE LA SÉCURITÉ EST NEUTRALISÉE. EXPOSITION DANGEREUSE AU FAISCEAU.
注意	- 打开时及联锁消除时可见及不可见激光辐射。避免激光束照射。

(Bottom of product)



(Bottom of product)