Panasonic

Operating Instructions Portable DVD/CD Player

Model No. DVD-LS92 DVD-LS70



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".

Number
2
3
4

Example:

For the United Kingdom and Ireland







Unless otherwise indicated, illustrations in these operating instructions are of DVD-LS92 and for the United Kingdom and Ireland.

Note "EB" on the packaging indicates UK model.



Caution for AC Mains Lead

(For the United Kingdom and Ireland)

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

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

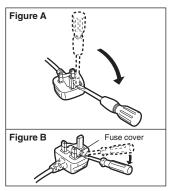
Remove the connector cover.

How to replace the fuse

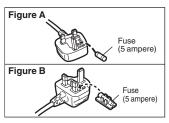
The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.

Elllustrations 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.

- Read these instructions.
- Keep these instructions.
- Heed all warnings. 3)
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- Clean only with dry cloth.
- 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) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 12) 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.

For Asia

THIS UNIT IS INTENDED FOR USE IN TROPICAL CLIMATES. For the United Kingdom, Ireland, Australia and New Zealand

THIS UNIT IS INTENDED FOR USE IN MODERATE CLIMATES.

Product Identification Marking is located on the bottom of units.

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

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.

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.
- Listening at full volume for long periods may damage the user's ears.
 Be sure to use the supplied or recommended headphones or earphones.

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.

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Accessories



Please check and identify the supplied accessories.

Use numbers when asking for replacement parts. (Product numbers correct as of December 2010. These may be subject to change.)

- □ 1 Audio/video cable (K2KYYYY00057)
- ☐ 1 AC adaptor (RFEA217W)
- □ 1 AC mains lead

For the United Kingdom and Ireland	(K2CT3CA00007)
For Asia	(K2CP2CA00001)
	(K2CQ2CA00006)

AC mains lead with a label is for Thailand.

AC mains lead without a label is for areas other than Thailand

For Australia and New Zealand

(K2CJ2DA00008)

• For use with this unit only. Do not use it with other equipment.

Also, do not use cords for other equipment with this unit.

- □ 1 Car DC Adaptor (RFEC204M-AB)
- □ 1 Rechargeable battery pack

	Included	Optional
DVD-LS92	DY-DB20	DY-DB30
DVD-LS70	CGR-H711	CGR-H712

Depending on the battery pack, playback time may differ.
 [→ 6, Approximate recharging and play times (Hours)]

For the United Kingdom and Ireland

■ Sales and Support Information

Customer Care Centre

- For customers within the UK: 0844 844 3852
- For customers within Ireland: 01 289 8333
- Visit our website for product information www.panasonic.co.uk
- E-mail: customer.care@panasonic.co.uk

Direct Sales at Panasonic UK

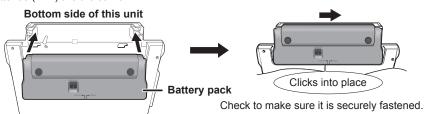
- For customers: 0844 844 3856
- Order accessory and consumable items for your product with ease and confidence by phoning our Customer Care Centre Monday – Thursday 9:00 a.m. – 5:30 p.m., Friday 9:30 a.m. – 5:30 p.m. (Excluding public holidays)
- Or go on line through our Internet Accessory ordering application at <u>www.pas-europe.com</u>.
- 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.

Preparations

• Attaching the battery

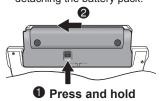
(When the unit is off)

The illustrations shown are of DY-DB20; however the steps for the other batteries (\rightarrow 4) are the same.



Detaching

Turn the unit off before detaching the battery pack.

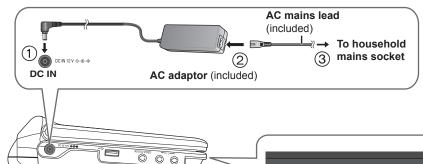


When not using for long periods of time

- 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.

Recharging the battery

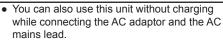
The battery is not charged at the time of purchase. Charge before initial use.



The unit is in the standby condition (the [o] 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 0.5 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.



You can also use this unit without charging while connecting Car DC Adaptor. (\rightarrow 15. Connecting the included Car DC Adaptor)



Recharging time:

→ 6, Approximate recharging and play times (Hours) When finished, disconnect the AC

adaptor and the AC mains lead.

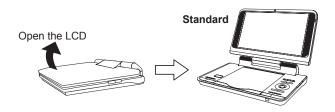
Started Finished goes out → lights* → goes out [CHG] lights

Only when recharged with the unit

[b] 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.

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)

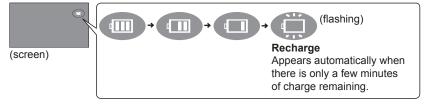
_	Recharging		PI temperature	ay e using head	Iphones)
Battery pack	(When the unit is off) (at 20 °C)	/ I C.I.I Drightness level			1.00.04
	(0.20 0)	-5	0	5	LCD Off
DY-DB20	7	11	9.5	8	11
CGR-H711	5	5	5	4	5.5
DY-DB30 (option)	8	14	12	10	14
CGR-H712 (option)	7	11	9.5	8	11

- The times indicated on the left may differ depending on use.
- To change the LCD brightness (\rightarrow 10).

Checking the remaining battery charge

When the unit is on $(\rightarrow 8)$ 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 OSC OSCILLATION OF THE PROPERTY OF T	VCD	Music discs with video Including SVCD (Conforming to IEC62107)
CD	GD	Music discs

Blu-ray, HD DVD, discs recorded with AVCHD format, DVD-Audio, Version 1.0 of DVD-RW, DVD-RAM, DVD-VR, CDV, CD-G, SACD, Photo CD, "Chaoji VCD" available on the market including CVD,

DVCD and SVCD that do not conform to

IEC62107.

Recorded disc (O: Available —: Not available)

Disc Logo	Recorded on a DVD recorder, etc.	Recorded on a personal computer, etc.			Necessity of finalize*3
Logo	DVD-V*2	MP3	JPEG	DivX	
DVD-R/RW					
R W R W	0	О	0	0	Necessary
DVD-R DL					
R DL	0	_	_	_	Necessary
+R/+RW —	(O)	_	_	_	Necessary
+R DL —	(O)	_	_	_	Necessary
CD-R/RW*1	_	0	0	0	Necessary*4

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 (→ 12, Tips for making data discs).

^{*1} This unit can play CD-R/RW recorded with CD-DA or Video CD format.

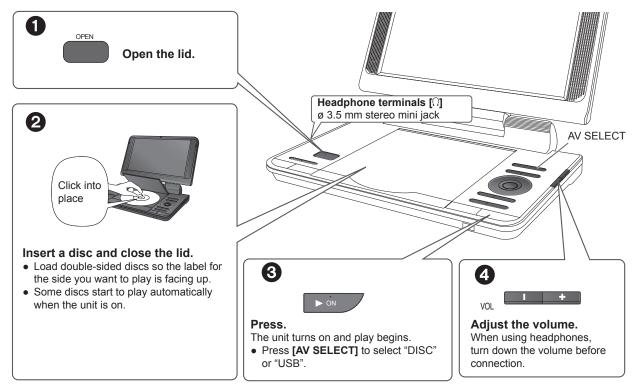
^{*2} Discs recorded on DVD recorders or DVD video cameras, etc. using DVD-Video Format.

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

^{*3} 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.

^{*4} Closing the session will also work.

Playing discs



- ullet To change the language on the display ightarrow 14, "Language" tab
- 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 (→ 17).
- During playback of DTS source, there will be no sound from the speakers. Select a different audio source (e.g. Dolby Digital).

Note

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

Operations

-		
▶ on	Turn unit on/play	When the unit is off: Press, the power comes on and play begins. When the unit is on: Press and play begins.
II	Pause	Press [► ON] to restart play.
■ - OFF	Stop	The position is memorized when you press it for the first time. • Press [▶ ON] to resume. (Resume play) Opening the disc lid or pressing [■ -OFF] cancels the memorized position.
	Turn unit off	Press and hold until the unit is off.
	Skip	Press [I◀◀, ▶▶I].
H4	Search	Press and hold [I◄◄, ▶►I]. Press [► ON] to return to normal play.
	Slow play	DVD_V Press and hold [I◀◀, ▶►I] while paused. VCD DIVX Press and hold [▶►I] while paused. Press [▶ ON] to return to normal play.
TOPMENU	Top menu	Shows a disc top menu.
MENU	Menu	Shows a disc menu. VCD Switch PBC on/off.
	Navigation Menu	MP3 JPEG DivX (→ 11)
RETURN	Return	Returns to the previous screen. Ved (with playback control) Returns to the menu.
	Menu operation	Press [▲ ▼ ◀ ▶] and [OK] to set.
(OK)	Number Select	(with PBC off) ① Press [DISPLAY] to display On-Screen Menus. ② Press [▲ ▼] to select item. ③ Press [◀▶] to enter number. ④ Press [OK].
_	Frame-by-frame	DVD■V While paused, press [▶] or [▮] to step forward, press [◄] to step backward. VCD DIVX While paused, press [▮] to step forward only.

Useful functions

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



Press to change.

Monitor Normal: Effective in 4:3 video only 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 [the indicator flashes.)
- The LCD turns off automatically if you close it.

Selecting the picture quality on the LCD



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

Press to change.

Brightness: -5 to 5 Contrast: -5 to 5 Tint: -5 to 5 Colour*: -5 to 5

* For Asia, "Color" is displayed.

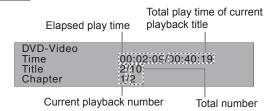
• To exit the screen: Press [RETURN].

Displaying current playback condition (Quick OSD)

e.g. DVD-V

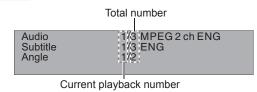


Press three times.





Press four times.



To exit the screen: Press [RETURN].

Repeat play



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

• VCD With PBC off.

About DivX® VOD content

ABOUT DIVX VIDEO:

DivX® is a digital video format created by DivX, Inc. This is an official DivX Certified® device that plays DivX video. Visit divx. com for more information and software tools to convert your files into DivX video.

ABOUT DIVX VIDEO-ON-DEMAND:

This DivX Certified® device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies.

To obtain your registration code, locate the DivX VOD section in your device setup menu.

Go to vod.divx.com for more information on how to complete your registration.

Display the unit's registration code

(→ 14, DivX[®] VOD Registration)



- After playing DivX VOD content for the first time, the registration code is not displayed.
- 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

Cancel the unit's registration

(→ 14, DivX[®] VOD deactivation)

Use the deregistration code to cancel the registration in

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

Some DivX VOD contents can only be played a set number of times. When you play this content, the number of times already played and initially playable number of times is displayed.

• The remaining number of plays decreases each time a programme is played. However, when playing from the point where play was previously stopped, the remaining number of plays does not decrease due to the resume play function.

Note

 Video images of the copyright protect DivX® contents stored on a USB device cannot be output.

To view the protected DivX video output to TV, please copy the video to compatible disc on your computer.

About DivX subtitles text display

For the United Kingdom and Ireland only

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

- The subtitle menu displays automatically when you select a DivX file with subtitle text to play.

 Select the subtitle you want.

 The subtitle you want.
 - Select the subtitle you want.
- The menu will disappear after 40 secends without any operation, and the default item "External Subtitle Off" is selected.
- DivX video files that do not display "External Subtitle File Selection" do not contain subtitles text.
 Subtitles text cannot be displayed.
- If the subtitles text are not displayed correctly, try changing the language settings (→ 14, Subtitle Text).
- File format: MicroDVD, SubRip, or TMPlayer
- File extension: ".SRT", ".srt", ".SUB", ".sub", ".TXT", or ".txt"
- 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.

■ Limitations of this unit

- 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 is being performed.
- In some case, 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

Switching drives

Press [AV SELECT] to select "DISC" or "USB" while the unit is stopped or in the status of "No Disc".



If media is inserted while the unit is stopped or in the status of "No Disc", the "AV Select" menu displays automatically.

Note

- This unit does not guarantee connection with all USB devices.
- This unit does not support USB device charging.
- FAT12, FAT16 and FAT32 file systems are supported.
- This unit supports USB 2.0 Full Speed.
- When overcurrent error on USB device occurred, please remove the USB device.

Playing CD, data disc and USB device

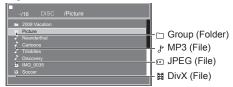
CD MP3 JPEG DivX

Insert a CD. data disc or USB device.

While the menu is displayed, press [▲ ▼] to select an item and press [OK] to play.

· Repeat this step if there are multiple layers.

e.g. data disc



• Press [RETURN] to go back to previous screen.

■ Select the picture in thumbnails menu

- 1 While pictures are being played, press [TOP MENU] to display the thumbnails.
- 2 To select a picture in a group

Press [▲ ▼ ◀ ▶] to select the picture and press [OK].

- Press [▶►] to skip forward page by page.
- Press [◄◄] to skip backward page by page.
- To exit the screen: Press [MENU].



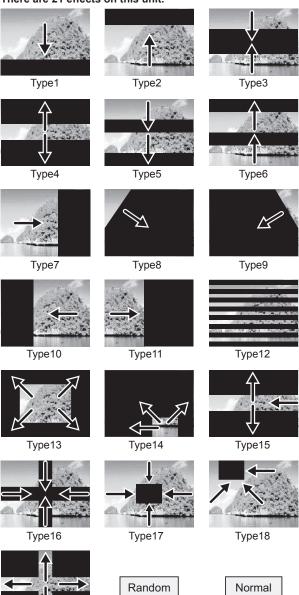
Transition effect mass

Press [DISPLAY] while playing JPEG.



- Press [▲ ▼] to select "Transition Effect".
- Press [OK] to select the effect you want.

There are 21 effects on this unit.



Tips for making data discs

Format: MP3

Disc: DVD-R/RW, CD-R/RW Extension: ".MP3", ".mp3"

Reference:

• Sampling frequency:

DVD-R/RW, CD-R/RW: 8, 11.025, 12, 16, 22.05, 24, 32, 44.1

Commodible

 Compatible compression rate: between 32 kbps and 320 kbps

This unit is not compatible with ID3 tags.

Format: JPEG

Disc: 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, MOTION JPEG and other such formats, still pictures other than JPEG (e.g. TIFF) or play pictures with attached audio.

Format: DivX

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

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

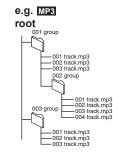
Reference:

- 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).
- 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-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.

Type19

Using On-Screen Menus

e.g. DVD-V



Press once.







1 Press [▲ ▼ ◀ ▶] to select.

2 Press [OK] to set.

Main menu

Repeat

DVD-V Setup

Dialogue Enhancer

• Please follow the on-screen instructions for the operation.

Repeat steps if necessary.

- Items shown differ depending on the type of software.
- Some functions only work during playback.
- To exit the screen: Press [RETURN].

Title	To start from a specific item.			
Chapter	 Press [▲ ▼] to select the item. 			
Track (VCD with PBC off)	 Press [◀▶] to change the number and press [OK] to play. 			
Subtitle	To change subtitles (Discs with subtitles). ● On +R/+RW, a subtitle number may be shown for subtitles that are not displayed.			
Audio	To change soundtracks. DVD-V Change soundtracks. VCD Select "L", "R", "L+R", "L R".			
Angle	To select angles. DVD-V with multiple angles.			
JPEG Interval TPEG	To change the slideshow timing. • Fast • Normal • Slow • Off • "Fast" is the factory preset.			
Transition Effect JPEG	To change transition effect. (→ 12)			
_	To change repeat mode.			

two or more types of MP3, JPEG and DivX contents.

Making the dialog in movies easier to hear.

To change settings in Setup menu. (\rightarrow 14)

• "C Group" can only repeat the same type of material if you play a data disc with folders containing

Changing the player settings

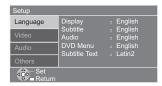
- · Referring to the table below, change as required.
- Underlined items are the factory presets.
- Items shown differ depending on the type of software.
- Operations maybe differ depending on the type of software.

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

e.q. DVD-V

1 Press [DISPLAY] twice.

2 Press [▲ ▼] to select "Setup" and press [OK].



- Press [▲ ▼ ◀ ▶] and [OK] to set.
- To enter number: press [▲ ▼] to select.
- To return to the previous screen: Press [RETURN].
- To exit the screen: Press [RETURN] several times.

"Language" tab

"Language" tab					
Display	Except Asia • English • Nederlands For Asia • Eng	● Deutsch ● Svenska <u>llish</u> ● 繁體中文	FrançaisPolski	● Español	• Italiano
Subtitle	Except Asia • English • Dutch For Asia • Eng	German Swedish Chinese Trad	FrenchPolishOff	• Spanish • Off	• Italian
Audio	Except Asia • English • Dutch For Asia • Eng	GermanSwedishChinese Trad	FrenchPolish	• Spanish	• Italian
DVD Menu	Except Asia • English • Dutch For Asia • Eng	GermanSwedishChinese Trad	FrenchPolish	• Spanish	• Italian
Subtitle Text For the United Kingdom and Ire	Latin1 land only	Turkish	• <u>Latin2</u>	• Cyrillic	

"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.	
TV System Effective only when you connect Audio/Video cable to this unit.	NTSC: Output signals from all discs remains as NTSC. PAL: Output signals from all discs remains as PAL. For Asia "NTSC" is the factory preset.	

"Audio" tab

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

"Others" tab

Restore Default Settings	This returns all values in the Setup menu and the on-screen menu, except for "Set Password" and "Ratings" to the default settings.	
System Information	Display firmware version of this unit.	
DivX® VOD Registration	You need this registration code to purchase and play DivX Video-on-Demand (VOD) content. $(\rightarrow$ 10)	
DivX® VOD deactivation	Cancel the unit's registration. (→ 10)	
Set Password	Press to set password. • Enter the default password "8888" then set your password.	
Ratings	Setting ratings (When level 8 is selected) 1 to 7: To prohibit play of DVD-Video with corresponding ratings recorded on them. 8 No Limit 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.

Enjoying in a car

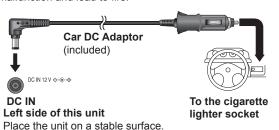
- Do not leave the unit on a surface that may become hot such as a dashboard. The unit is not heat-resistant so may malfunction.
- DRIVER MUST NOT OPERATE OR VIEW THIS UNIT WHILE OPERATING THE VEHICLE.

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

Connecting the included Car DC Adaptor

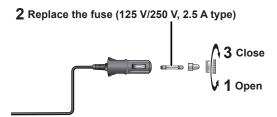
Before connection, consult your car owner's manual or your dealer.

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



Replacing the fuse

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



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 (→ 9) may not work.
- · Leave some slack in the cord.
- No responsibility will be taken for damage that occurs due to faulty installation.



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.

Left side of this unit

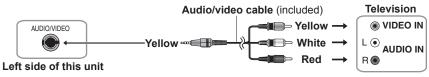
Using this unit with other equipment

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

Audio/video cable (included) Audio/video cable (included) Yellow Amplifier/System component White Red Audio IN Red

Enjoying with a television

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



- The unit's speakers do not have magnetic shielding. Do not place the unit near televisions, personal computers or other
 devices easily influenced by magnetism. Do not keep this unit and magnetized cards (bank cards, commuter passes, etc.)
 close together.
- If you raise the volume on the television while playing this unit, the volume may abruptly become very loud when you switch to a television broadcast. Return the volume to its normal level before changing.
- Please use the provided Audio/video cable in the accessories.
 If you use other Audio/video cables, video and audio may output incorrectly.
- When you connect Audio/Video cable to this unit, the LCD will be off, and video signal is output from VIDEO OUT Jack.

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
- 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
- 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*4)
- (2) DVD-R (DVD-Video, JPEG*3, 4, 5, MP3*2, 4, DivX*4)
- (3) DVD-R DL (DVD-Video)
- (4) DVD-RW (DVD-Video, JPEG*3, 4, 5, MP3*2, 4, DivX*4)
- (5) +R/RW (Video)
- (6) +R DL (Video)
- (7) CD, CD-R/RW (CD-DA, Video CD, SVCD*1, MP3*2,4, JPEG*3, 4, 5, DivX*4)

PAL/NTSC selectable Signal system:

LCD screen:

DVD-LS92 9 inch, TFT wide-screen LCD (640 × 234 × RGB) DVD-LS70 7 inch, TFT wide-screen LCD (480 × 234 × RGB)

AUDIO/VIDEO output:

Output terminal: ø 3.5 mm mini jack Number of terminals: 1 system

Composite-video:

Output level: 1 Vp-p (75 Ω) Audio:

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

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 80 dB (3) Dynamic range:

(4) Total harmonic distortion: 0.1 %

Speaker: 1.2 W+1.2 W (10 % Distortion)

Headphone output:

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

IISR:

Number of terminals: 1 system USB standard: USB2.0 Full speed

Pickup:

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

Power supply:

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

Power consumption
(using included AC

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

(using included AC adaptor): approx. 0.5 W Power consumption in Recharge mode

12 W (using included AC adaptor):

AC adaptor:

Power source: AC 100 to 240 V, 50/60 Hz Power consumption: 22 W 12 V. 1.3 A DC output:

Car DC Adaptor:

DC output: 12 V, 1.5 A

(Vehicle with 12 V battery only)

Battery pack (lithium ion)

DVD-LS92 DY-DB20 (included):

Voltage: 7.2 V Capacity: 4200 mAh

DVD-LS70 CGR-H711 (included):

7.2 V Voltage: Capacity: 2100 mAh

Dimensions (W × H × D)

(excluding protrusions and battery):

242.6 mm (W) × 46.0* mm (H) × 173.5 mm (D) *24.6 mm at lowest point

DVD-LS92 (H=51.5 mm including battery) (D=179.3 mm including battery)

DVD-LS70 (H=46.6 mm including battery) (D=173.5 mm including battery))

(including battery):

DVD-LS92 approximately 1117 g DVD-LS70 approximately 922 g

(without battery):

DVD-LS92 approximately 885 g DVD-LS70 approximately 780 g

Specifications are subject to change without notice.

- *1 Conforming to IEC62107
- *2 MPEG-1 Layer 3, MPEG-2 Layer 3
- *3 Exif Ver 2.1 JPEG Baseline files

Picture resolution:

16:9 picture: 4 × 4 ~ 5760 × 3240 pixels 4:3 picture: 4 × 4 ~ 5760 × 4320 pixels (Sub sampling is 4:2:0 or 4:2:2)

- *4 The total combined maximum number of recognizable audio, picture and movie contents and groups: 2000 audio, picture and movie contents and 200 groups.
- *5 Extremely long and slender pictures may not be displayed.

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.

	_		_	
Р	O	W	е	Г

No power. • Check connections to the AC adaptor or battery pack. (5) • 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 • The unit turns off after it has been stopped for about 15 minutes (about 5 minutes when the unit is automatically. powered by the battery pack) to conserve power. Turn the unit on again. Cannot charge or the The charging time increases when the temperature is too hot or too cold, and charging may not [CHG] indicator fails to be possible under some circumstances. light. Check connections to the AC adaptor or battery pack. (5) Play time dramatically • The battery pack has reached the end of its service life (It can be recharged about 300 times). reduced after recharging.

No operation	
No response when any buttons pressed (U99).	 This unit cannot play discs other than the ones listed in these operating instructions. (7) 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. (8)
You have forgotten your ratings password.	• Press [I◄◄], [II] and [▶ ON] at the same time in the status of "No Disc". The unit restarts after "Initialized" displaying on the screen. All settings will return to the default values.
No picture or sound.	Check that the disc has something recorded on it.

Specific operation impossible or incorrect

It takes time before play starts.	 Play may take time to begin when an MP3 track has still picture data. Even after the track starts, the correct play time will not be displayed; however, this is normal. This is normal on DivX video.
No subtitles.	Display the subtitles. (13)
Play doesn't start.	 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.

Sound incorrect

Sound distorted.	Move unit away from mobile phones.
Effects do not work.	Some audio effects do not work or have less effect with some discs.
No sound from the unit's speaker.	 The speaker is off if the LCD is closed or headphones are connected. Turn up the volume. (8)
No sound from other speakers.	Check all connections and settings. (15)
No sound.	DivX Audio may not be output due to how files were created. (12)

Picture incorrect

Picture distorted.	There may be some video distortion during search, but this is normal.
Picture stops.	Picture may stop if the DivX files are greater than 2 GB.
No picture on the LCD.	 Check connections. (5) Select a LCD-SIZE other than "Monitor Off" (No picture). (10, Selecting how to show 4:3 aspect pictures on the LCD) When you connect Audio/Video cable to this unit, the LCD will be off, and video signal is output from VIDEO OUT Jack.
The LCD is dark.	Adjust the brightness. (10)
LCD pixels turn black or radiate different colours.	• 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. (15) 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. (14) Ensure that the unit is connected directly to the television, and is not connected through a video cassette recorder. (15) Use the television to change the aspect.

Displays

" \omega "	The operation is prohibited by the unit or disc.
" (IIII ERROR 01"	A problem has occurred with the battery pack. Consult your dealer.
" 💷 ERROR 02"	The battery pack has been recharging for 20 hours but has failed to recharge for some reason. Recharge again.
" (IIII ERROR 03"	The battery is recharged in a location that is too hot or too cold. Recharge at normal temperature (+5 to +35°C).

[b] and [CHG] indicators

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

Frequently asked questions

Reference pages are shown in parentheses.

	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 rear panel. (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. (15)
Ω	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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MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson.

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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.

CAUTION -	- CLASS 1M VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC660825-1 +A2/Class 1M
VARNING -	- KLASS 1M SYNLIG OCH OSYNLIG LASERSTRÄLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN DIREKT GENOM OPTISKT INSTRUMENT.
FORSIGTIG	-SYNLIG OG USYNLIG LASERSTRÅLING KLASSE IM. NÅR LÅGET ER ÅBENT OG SIKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ AT SE LIGE PÅ MED OPTISKE INSTRUMENTER.
VARO ·	– AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA LUOKAN 1M NÄKYVÄÄ JA NÄKYMÄTÖNTÄ LASERSÄTEILYÄ. ÄLÄ KATSO OPTISELLA LAITTEELLA SUORAAN SÄTEESEEN.
VORSICHT	-Sichtbare und unsichtbare laserstrahlung klasse 1m, Wenn abdeckung geöffnet und Sicherheitsverriegelungen überbrückt. Nicht direkt mit Optischen instrumenten betrachten.
ATTENTION	-RAYONNEMENT LASER VISIBLE ET INVISIBLE. CLASSE 1M. EN CAS DOUVETURE ET LORSOUE LA SÉCURITÉ EST NEUTRALISÉE. NE PAS REGARDER DIRECTEMENT À L'AIDE D'INSTRUMENTS D'OPTIQUE.
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ΕU

Pursuant to at the directive 2004/108/EC, article 9(2) Panasonic Testing Centre Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany