

Owner's Manual Portable DVD/CD Player

Model No. DVD-LS92



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.

**If you have any questions contact
1-800-211-PANA (7262)**



Region number

The player plays DVD-Video marked with labels containing the region number "1" or "ALL".

Example:



The warranty can be found on page 17.

IMPORTANT SAFETY INSTRUCTIONS

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) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) 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.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord 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.

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.

Product Identification Marking is located on the bottom of units.

FCC Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any unauthorized changes or modifications to this equipment would void the user's authority to operate this device.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.




Responsible Party:

Panasonic Corporation of North America
One Panasonic Way
Secaucus, NJ 07094

Support Contact:

Panasonic Consumer Electronics Company
Telephone No.: 1-800-211-PANA (7262)

The following mark and symbols are located on bottom of the unit.

  
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE SCREWS. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

The unit should be installed near an accessible AC power outlet, with the power cord connected directly to it. To completely disconnect power from the unit, unplug the power cord from the AC power outlet.

Listening caution



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. Sound can be deceiving. Over time your hearing "comfort level" adapts to higher volumes of sound. So what sounds "normal" can actually be loud and harmful to your hearing. Guard against this by setting your equipment at a safe level BEFORE your hearing adapts.

To establish a safe level:

- Start your volume control at a low setting.
- Slowly increase the sound until you can hear it comfortably and clearly, and without distortion.

Once you have established a comfortable sound level:

- Leave it there.

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.

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.

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.

A lithium ion battery that is recyclable powers the product you have purchased.

At the end of its useful life, under various state and local laws, it is illegal to dispose of this battery into your municipal waste stream.

Please call 1-800-8-BATTERY for information on how to recycle this battery.



AC adaptor

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

- In the U.S.A. and Canada, the AC adaptor must be connected to a 120 V AC power supply only.
- When connecting to an AC supply outside of the U.S.A. or Canada, use a plug adaptor to suit the AC outlet configuration.

CAUTION-LASER RADIATION WHEN OPEN AND INTERLOCK DEFEATED. DO NOT STARE INTO BEAM. FDA 21 CFR / Class II

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

IEC60825-1 +A2/ Class 1M

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

(Bottom of product)

Warning

Risk of fire, explosion and burns. Do not disassemble, heat above 60°C (140°F) 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.)

To order accessories, refer to “Accessory Purchases” on page 17.

- 1 Audio/video cable** (K2KYYYY00057)
- 1 AC adaptor** (RFEA218C)
 - 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** (RFEC207P-AB)
- 1 Rechargeable battery pack**

Included	Optional
DY-DB20	DY-DB30

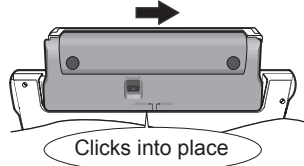
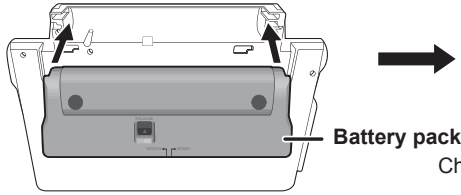
- Depending on the battery pack, playback time may differ. [→ 5, Approximate recharging and play times (Hours)]

Preparations

① Attaching the battery

(When the unit is off)

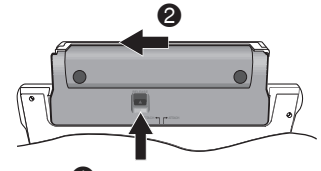
Bottom side of this unit



Check to make sure it is securely fastened.

■ Detaching

- Turn the unit off before detaching the battery pack.



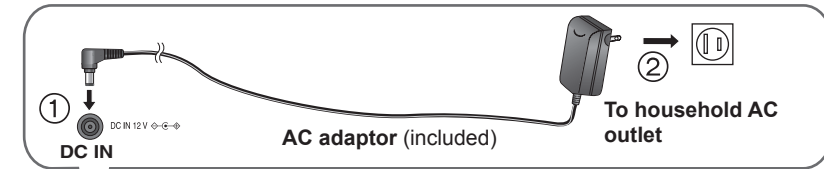
① Press and hold

When not using for long periods of time

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

② Recharging the battery

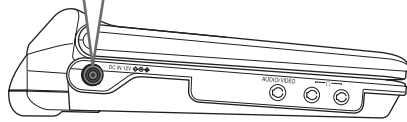
The battery is not charged at the time of purchase. Charge before initial use.



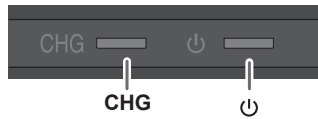
The unit is in the standby condition (the [⏻] indicator lights) when the AC adaptor is connected. The primary circuit is always "live" as long as the AC adaptor is connected to an electrical outlet.

To conserve power

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



- You can also use this unit without charging while connecting the AC adaptor.
- You can also use this unit without charging while connecting Car DC Adaptor. (→ 13, Connecting the included Car DC Adaptor)



Recharging time:

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

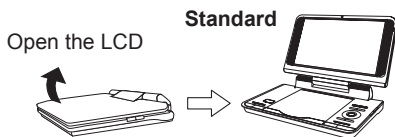
Started **Finished**

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

[⏻] indicator

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

③ Adjusting the LCD angle



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

Approximate recharging and play times (Hours)

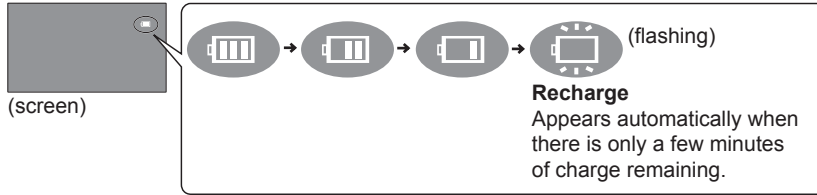
Battery pack	Recharging (When the unit is off) [at 20 °C (68 °F)]	Play (at room temperature using headphones)			
		LCD brightness level			LCD Off
		-5	0	5	
DY-DB20	7	11	9.5	8	11
DY-DB30 (option)	8	14	12	10	14

- The times indicated on the left may differ depending on use.
- To change the LCD brightness (→ 9).

Checking the remaining battery charge

When the unit is on (→ 7) 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-V	High quality movie and music discs
	VCD	Music discs with video Including SVCD (Conforming to IEC62107)
	CD	Music discs

Discs that cannot be played

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, PAL discs and "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
	DVD-V *2	MP3	JPEG	
	O	O	O	Necessary
	O	—	—	Necessary
+R/+RW —	(O)	—	—	Necessary
+R DL —	(O)	—	—	Necessary
CD-R/RW *1 —	—	O	O	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 (→ 10, 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.

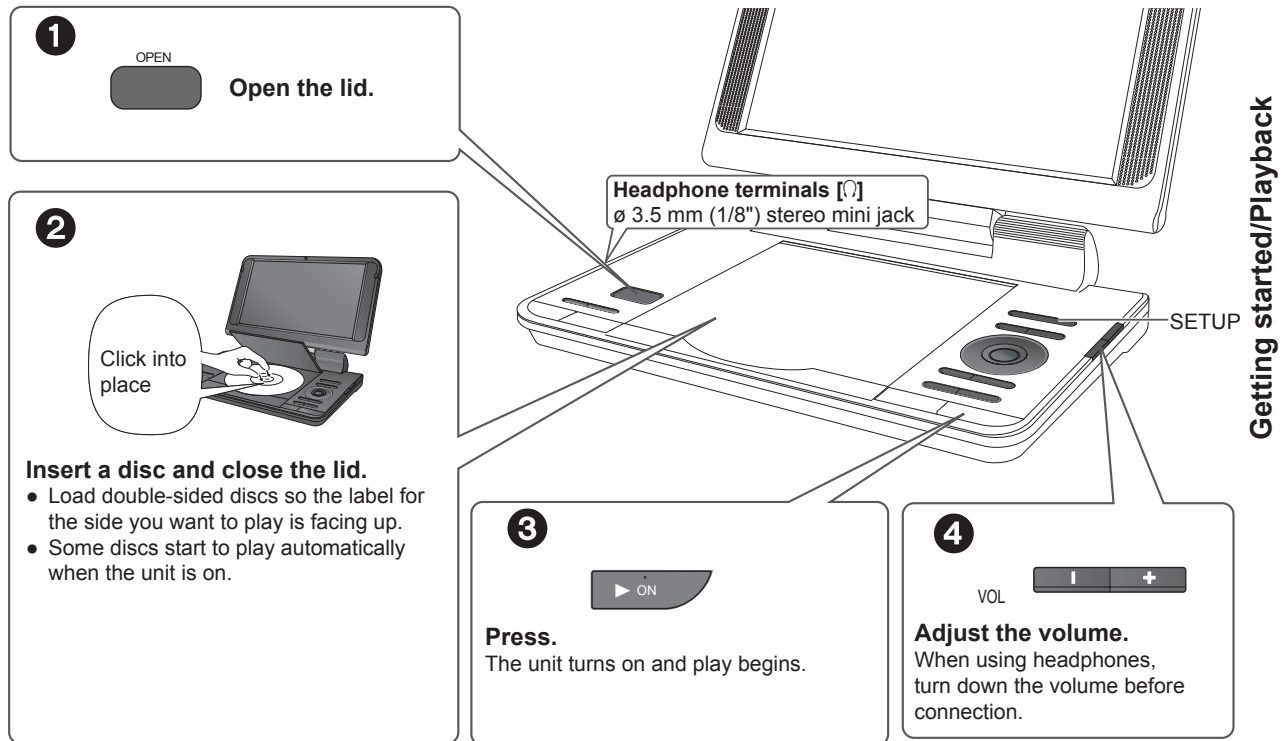
*3 A process that allows play on compatible equipment. To play a disc that is displayed as "Necessary" on this unit, the disc must first be finalized on the device it was recorded on.

*4 Closing the session will also work.

Note about using a DualDisc

- The digital audio content side of a DualDisc does not meet the technical specifications of the Compact Disc Digital Audio (CD-DA) format so play may not be possible.
- Do not use a DualDisc in this unit as it may not be possible to insert it correctly and it may get scratched or scraped.

Playing discs











- To change the language on the display → 12, “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 (→ 15).
- 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

	Turn unit on/play	When the unit is off: Press, power comes on and play begins. When the unit is on: Press and play begins.
	Pause	Press [▶ ON] to restart play.
	Stop	The position is memorized when 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 [◀◀ ▶▶] .
	Search	Press and hold [◀◀ ▶▶] . Press [▶ ON] to return to normal play.
	Slow play	DVD-V Press and hold [◀◀ ▶▶] while paused. VCD Press and hold [▶▶] while paused. Press [▶ ON] to return to normal play.
	Top menu	DVD-V Shows a disc top menu.
	Menu	DVD-V Shows a disc menu. VCD Switch PBC on/off.
	Navigation Menu	MP3 JPEG (→ 9)
	Return	Returns to the previous screen. VCD (with playback control) Returns to the menu.
	Menu operation	Press [▲ ▼ ◀ ▶] and [OK] to set.
	Number Select	VCD (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 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 [⏻] indicator flashes.)
- The LCD turns off automatically if you close it.

Selecting the picture quality on the LCD



Press to change.

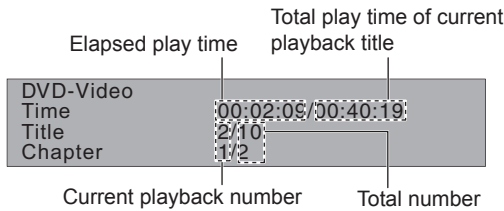
- Press [▲ ▼] to select the item, and [◀ ▶] to change the setting.
- Brightness:** -5 to 5
- Contrast:** -5 to 5
- Tint:** -5 to 5
- Color:** -5 to 5
- To exit the screen: Press [RETURN].

Displaying current playback condition (Quick OSD)

e.g. DVD-V

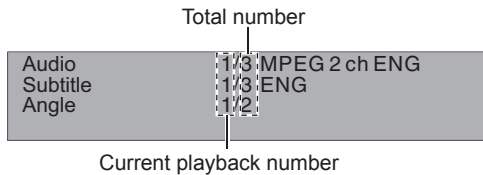


Press three times.



DISPLAY

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).

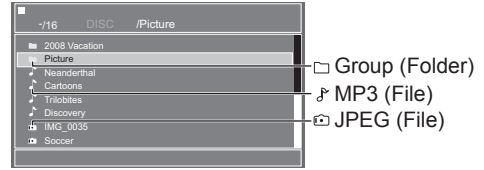
Playing CD and data disc

CD MP3 JPEG

Insert a CD or data disc.

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

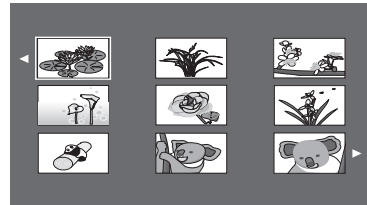
JPEG

1 While pictures are being played, press [TOP MENU] to display the thumbnails.

2 To select a picture in a group

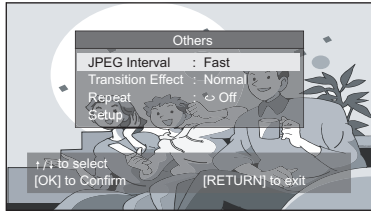
Press [▲ ▼ ▶ ◀] to select the picture and press [OK].

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



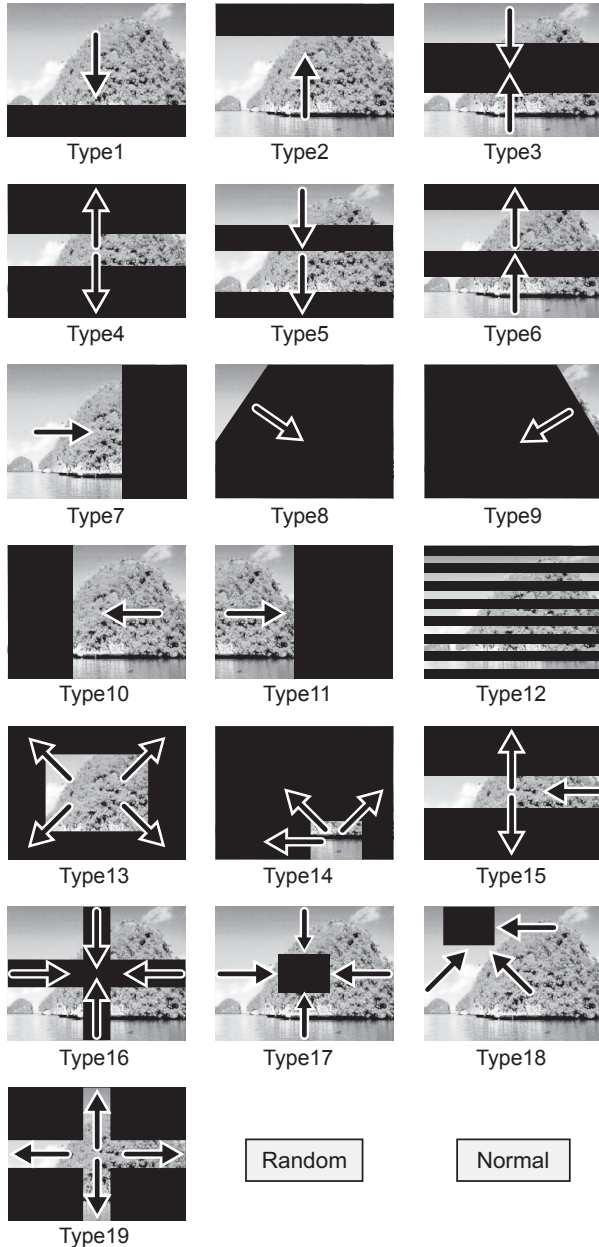
Transition effect JPEG

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 and 48 kHz
- 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:

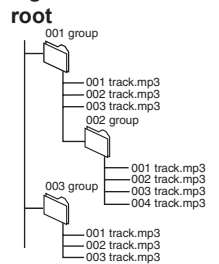
- JPEG files taken on a digital camera that conform to DCF (Design rule for Camera File system) Standard Version 1.0 are displayed.
– Files that have been altered, edited or saved with computer picture editing software may not be displayed.
 - This unit cannot display moving pictures, MOTION JPEG and other such formats, still pictures other than JPEG (e.g. TIFF) or play pictures with attached audio.
-
- 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).

e.g. **MP3**



DVD-R/RW

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

CD-R/RW

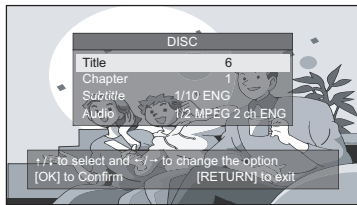
- Discs must conform to ISO9660 level 1 or 2 (except for extended formats).
- This unit is compatible with multi-session but if there are a lot of sessions it takes more time for play to start. Keep the number of sessions to a minimum to avoid this.

Using On-Screen Menus

e.g. **DVD-V**

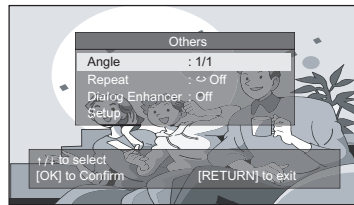
DISPLAY

Press once.



DISPLAY

Press twice.



1 Press [**▲ ▼ ◀ ▶**] to select.

2 Press [**OK**] to set.

- 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**].

Main menu

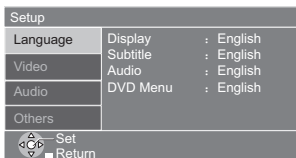
Title	To start from a specific item
Chapter	<ul style="list-style-type: none"> • Press [▲ ▼] to select the item.
Track (VCD) with PBC off)	<ul style="list-style-type: none"> • Press [◀ ▶] to change the number and press [OK] to play.
Subtitle	To change subtitles (Discs with subtitles)
	<ul style="list-style-type: none"> • 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 JPEG	To change the slideshow timing.
	<ul style="list-style-type: none"> • Fast • Normal • Slow • Off • "Fast" is the factory preset.
Transition Effect JPEG	To change transition effect. (→ 10)
Repeat	To change repeat mode.
	<ul style="list-style-type: none"> • "↵ Group" can only repeat the same type of material if you play a data disc with folders containing both MP3 and JPEG contents.
Dialog Enhancer DVD-V	Making the dialog in movies easier to hear
	On ↔ Off
Setup	To change settings in Setup menu. (→ 12)

Changing the player settings

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

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

1



2





- 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

Display	• <u>English</u>	• Français	• Español
Subtitle	• <u>English</u>	• French	• Spanish • Off
Audio	• <u>English</u>	• French	• Spanish
DVD Menu	• <u>English</u>	• French	• Spanish

“Video” tab

TV Aspect	<p>Choose the setting to suit your television and preference.</p> <ul style="list-style-type: none"> • 4:3 Pan&Scan: Regular aspect television (4:3) The sides of the widescreen picture are cut off so it fills the screen (unless prohibited by the disc). • 4:3 Letterbox: Regular aspect television (4:3) Widescreen picture is shown in the letterbox style. • <u>16:9</u>: Widescreen television Use the television’s screen modes to change the way the picture is shown. 	 
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“Audio” tab

Dynamic Range	<ul style="list-style-type: none"> • <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.
Set Password	Press to set password. <ul style="list-style-type: none"> • Enter the default password “8888” then set your password.
Ratings	<p>Setting ratings (When level 8 is selected)</p> <ul style="list-style-type: none"> • 1 to 7: To prohibit play of DVD-Video with corresponding ratings recorded on them. • <u>8 No Limit</u> <p>When setting a ratings level, a password screen is shown. Follow the on-screen instructions. Do not forget your password.</p> <p>A message screen will be shown if a DVD-Video exceeding the ratings level is inserted in the unit. Follow the on-screen instructions.</p>

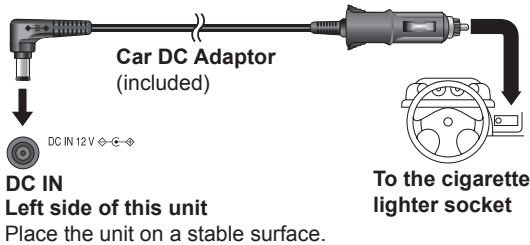
Enjoying in a car

- 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.

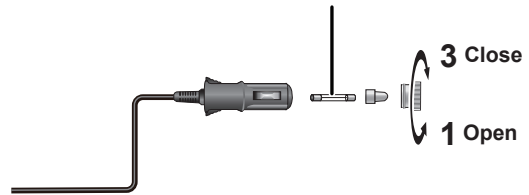
- Connect to the cigarette lighter socket of a vehicle that has a 12 V battery. It is not compatible with a vehicle that has a 24 V battery.
- This is a special negative grounded Car DC Adaptor. Using this Car DC Adaptor with a plus grounded car can cause malfunction and lead to fire.



Replacing the fuse

Replace only with the specified 125 V/250 V, 3.15 A fuse. Use of any other type can cause fire.

- 2 Replace the fuse (125 V/250 V, 3.15 A type)



Cautions

- **To avoid draining your car battery**
 - Disconnect the Car DC Adaptor from the cigarette lighter after use. The Car DC Adaptor continues to consume some power even if it is not being used, and if a battery pack is attached to this unit, it will start recharging which uses more power.
 - Do not use the Car DC Adaptor for long periods when the engine is not running.
- Turn the unit off before stopping the engine while using Car DC Adaptor, otherwise resume play (→ 8) may not work.
- Leave some slack in the cord.
- No responsibility will be taken for damage that occurs due to faulty installation.



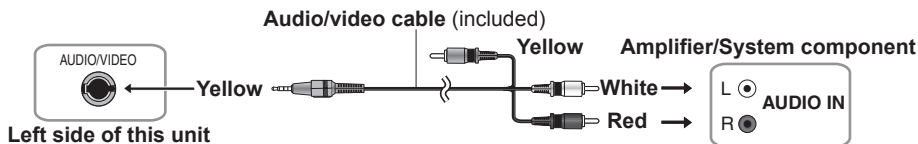
Left side of this unit

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

Using this unit with other equipment

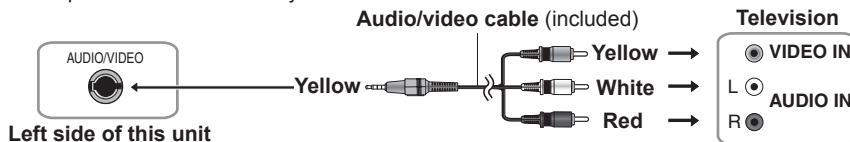
Turn off all equipment before connecting and read the appropriate operating instructions.

Enjoying stereo audio



Enjoying with a television

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



- 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.

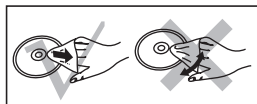
- Use eyeglass cleaner to remove stubborn dirt from the LCD.
- Never use alcohol, paint thinner or benzene to clean this unit.

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.



Specifications

Operating temperature range: +5 to +35 °C (+41 to +95 °F)

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

Discs played [8 cm (3 ") or 12 cm (5 ")]:

- (1) DVD (DVD-Video)
- (2) DVD-R (DVD-Video, JPEG*^{3,4,5}, MP3*^{2,4})
- (3) DVD-R DL (DVD-Video)
- (4) DVD-RW (DVD-Video, JPEG*^{3,4,5}, MP3*^{2,4})
- (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})

Signal system: NTSC

LCD screen: 9 inch, TFT wide-screen LCD (640 × 234 × RGB)

AUDIO/VIDEO output:

Output terminal: ø 3.5 mm (1/8") 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 kΩ)

Audio performance:

(1) Frequency response:

- DVD (linear audio):
4 Hz to 22 kHz (48 kHz sampling)
4 Hz to 44 kHz (96 kHz sampling)
- CD audio:
4 Hz to 20 kHz

(2) S/N ratio: 100 dB

(3) Dynamic range: 80 dB

(4) Total harmonic distortion: 0.1 %

Speaker:

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

Headphone output:

Output: ø 3.5 mm (1/8") stereo mini jack

Number of terminals: 2 systems

Pickup:

Wave length: 655 nm/790 nm (DVD/CD)

Laser power: CLASS II / CLASS I (DVD/CD)

Power supply:

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

Power consumption

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

Power consumption in Standby mode

(using included AC adaptor): approx. 0.4 W

Power consumption in Recharge mode

(using included AC adaptor): 12 W

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, benzene, thinner, static electricity prevention liquids or any other solvent.
- Do not use scratch-proof protectors or covers.
- Do not drop stack, or impact discs. Do not place objects on them.
- To protect discs from scratches and dirt, return them to their cases or cartridges when you are not using them.
- Do not use the following discs:
 - Discs with exposed adhesive from removed stickers or labels (rented discs etc.).
 - Discs that are badly warped or cracked.
 - Irregularly shaped discs, such as heart shapes.

AC adaptor:

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

Power consumption: 22 W

DC output: 12 V, 1.3 A

Car DC Adaptor:

DC output: 12 V, 2 A

(Vehicle with 12 V battery only)

Battery pack (lithium ion)

DY-DB20 (included):

Voltage: 7.2 V

Capacity: 4200 mAh

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

242.6 mm (W) × 46.0* mm (H) × 173.5 mm (D)

(9 ⁹/₁₆" × 1 ¹³/₁₆" × 6 ²⁷/₃₂"

*24.6 mm (³¹/₃₂") at lowest point

(H=51.5 mm (2 ¹/₃₂") including battery)

(D=179.3 mm (7 ¹/₁₆") including battery)

Mass (Weight):

(including battery):

approximately 1110 g (39.15 oz)

(without battery):

approximately 878 g (30.97 oz)

Note

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, refer to "Customer Services Directory" on page 17. (Reference pages are shown in parentheses.)

The following do not indicate malfunction.

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

Power

No power.	<ul style="list-style-type: none"> • Check connections to the AC adaptor or battery pack. (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 (41°F) and 35°C (95°F).
Unit turns off automatically.	<ul style="list-style-type: none"> • The unit turns off after it has been stopped for about 15 minutes (about 5 minutes when the unit is powered by the battery pack) to conserve power. Turn the unit on again.
Cannot charge or the [CHG] indicator fails to light.	<ul style="list-style-type: none"> • The charging time increases when the temperature is too hot or too cold, and charging may not be possible under some circumstances. • Check connections to the AC adaptor or battery pack. (5)
Play time dramatically reduced after recharging.	<ul style="list-style-type: none"> • The battery pack has reached the end of its service life (It can be recharged about 300 times).

No operation

No response when any buttons pressed (U99).	<ul style="list-style-type: none"> • This unit cannot play discs other than the ones listed in these operating instructions. (6) • The unit may not be operating properly due to lightning, static electricity or some other external factor. Turn the unit off and then back to ON. Alternatively, turn the unit off, disconnect the power source (AC or battery pack), and then reconnect it. • Condensation has formed: Wait 1 to 2 hours for it to evaporate. • Please insert the disc correctly. (7)
You have forgotten your ratings password.	<ul style="list-style-type: none"> • Press [◀◀], [] 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.	<ul style="list-style-type: none"> • Check that the disc has something recorded on it.

Specific operation impossible or incorrect

It takes time before play starts.	<ul style="list-style-type: none"> • Play may take time to begin when an MP3 track has still picture data. Even after the track starts, the correct play time will not be displayed; however, this is normal.
No subtitles.	<ul style="list-style-type: none"> • Display the subtitles. (11)
Play doesn't start.	<ul style="list-style-type: none"> • If a disc contains CD-DA and other formats, proper playback may not be possible.




Picture incorrect

Picture distorted.	<ul style="list-style-type: none"> • There may be some video distortion during search, but this is normal.
No picture on the LCD.	<ul style="list-style-type: none"> • Check connections. (5) • Select a LCD-SIZE other than "Monitor Off" (No picture). (9, 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.	<ul style="list-style-type: none"> • Adjust the brightness. (9)
LCD pixels turn black or radiate different colors.	<ul style="list-style-type: none"> • The LCD is constructed with precision technology so 99.99 % of the pixels are active, but of the remaining of 0.01 %, there are pixels that may be black or emit light constantly. This phenomenon is not a malfunction.
Picture doesn't appear on the television (or the size of the picture seems wrong).	<ul style="list-style-type: none"> • Check connections. (13) • 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. (12) • Ensure that the unit is connected directly to the television, and is not connected through a video cassette recorder. (13) • Use the television to change the aspect.

Sound incorrect

Sound distorted.	<ul style="list-style-type: none"> • Move unit away from mobile phones.
Effects do not work.	<ul style="list-style-type: none"> • Some audio effects do not work or have less effect with some discs.
No sound from the unit's speaker.	<ul style="list-style-type: none"> • The speaker is off if the LCD is closed or headphones are connected. • Turn up the volume. (7)
No sound from other speakers.	<ul style="list-style-type: none"> • Check all connections and settings. (13)

Displays

"⊘"	<ul style="list-style-type: none"> • The operation is prohibited by the unit or disc.
"  ERROR 01"	<ul style="list-style-type: none"> • A problem has occurred with the battery pack. Consult your dealer.
"  ERROR 02"	<ul style="list-style-type: none"> • The battery pack has been recharging for 20 hours but has failed to recharge for some reason. Recharge again.
"  ERROR 03"	<ul style="list-style-type: none"> • The battery is recharged in a location that is too hot or too cold. Recharge at normal temperature [+5 to +35°C (+41 to +95°F)].

[⏻] and [CHG] indicators

The [⏻] indicator flashes rapidly.	<ul style="list-style-type: none"> • The unit has malfunctioned. Consult your dealer.
The [⏻] indicator flashes slowly.	<ul style="list-style-type: none"> • The unit is on and the LCD is closed or the LCD-SIZE is set to "Monitor Off" (No picture). Turn the unit off when you have finished.
The [CHG] indicator flashes rapidly.	<ul style="list-style-type: none"> • There is a problem with the battery pack. Turn the unit on and check the message on the LCD. (above)
The [CHG] indicator flashes slowly.	<ul style="list-style-type: none"> • Battery pack charge is low. The unit will turn off automatically after a few minutes.

Frequently asked questions

Reference pages are shown in parentheses.

Can I play a DVD-Video bought in another country?	You can play if the region number includes "1" or "ALL" and the video standard is NTSC. 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. (13)
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.

Limited Warranty (ONLY FOR U.S.A. AND PUERTO RICO)

Panasonic Consumer Electronics Company,
Division of Panasonic Corporation of North America
One Panasonic Way, Secaucus, New Jersey 07094

Panasonic DVD Player Limited Warranty

Limited Warranty Coverage (For USA and Puerto Rico Only)

If your product does not work properly because of a defect in materials or workmanship, Panasonic Consumer Electronics Company (referred to as "the warrantor") will, for the length of the period indicated on the chart below, which starts with the date of original purchase ("warranty period"), at its option either (a) repair your product with new or refurbished parts, (b) replace it with a new or a refurbished equivalent value product, or (c) refund your purchase price. The decision to repair, replace or refund will be made by the warrantor.

Product or Part Name	Parts	Labor
DVD Player	1 year	90 days
Rechargeable Batteries (in exchange for defective item)	10 days	Not Applicable

During the "Labor" warranty period there will be no charge for labor. During the "Parts" warranty period, there will be no charge for parts. This Limited Warranty excludes both parts and labor for non-rechargeable batteries, antennas, and cosmetic parts (cabinet). This warranty only applies to products purchased and serviced in the United States or Puerto Rico. This warranty is extended only to the original purchaser of a new product which was not sold "as is".

Mail-In Service

For assistance in the U.S.A. and Puerto Rico in obtaining repairs, please ship the product prepaid to:

Panasonic Exchange Center
4900 George McVay Drive
Suite B
McAllen, TX 78503
panacare@us.panasonic.com

When shipping the unit, carefully pack, include all accessories, and send it prepaid, adequately insured and preferably in the original carton. When shipping Lithium Ion batteries please visit our Web Site at www.panasonic.com/BatteryHandling as Panasonic is committed to providing the most up to date information. Include a letter detailing the complaint, a return address and provide a daytime phone number where you can be reached. A valid registered receipt is required under the Limited Warranty.

IF REPAIR IS NEEDED DURING THE WARRANTY PERIOD, THE PURCHASER WILL BE REQUIRED TO FURNISH A SALES RECEIPT/ PROOF OF PURCHASE INDICATING DATE OF PURCHASE, AMOUNT PAID AND PLACE OF PURCHASE. CUSTOMER WILL BE CHARGED FOR THE REPAIR OF ANY UNIT RECEIVED WITHOUT SUCH PROOF OF PURCHASE.

Limited Warranty Limits And Exclusions

This warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, introduction of sand, humidity or liquids, commercial use such as hotel, office, restaurant, or other business or rental use of the product, or service by anyone other than a Factory Service Center or other Authorized Servicer, or damage that is attributable to acts of God. **THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY COVERAGE".**

THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY.

(As examples, this excludes damages for lost time, travel to and from the servicer, loss of or damage to media or images, data or other memory or recorded content. The items listed are not exclusive, but for illustration only.)

ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE PERIOD OF THE LIMITED WARRANTY.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the exclusions may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state. If a problem with this product develops during or after the warranty period, you may contact your dealer or Service Center. If the problem is not handled to your satisfaction, then write to the warrantor's Consumer Affairs Department at the addresses listed for the warrantor.

PARTS AND SERVICE, WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY, ARE YOUR RESPONSIBILITY.

Customer Services Directory (United States and Puerto Rico)

Obtain Product Information and Operating Assistance; locate your nearest Dealer or Service Center; purchase Parts and Accessories; or make Customer Service and Literature requests by visiting our Web Site at:

<http://www.panasonic.com/help>

or, contact us via the web at:

<http://www.panasonic.com/contactinfo>

You may also contact us directly at:

1-800-211-PANA (7262)

Monday-Friday 9am-9pm, Saturday-Sunday 10am-7pm EST

For hearing or speech impaired TTY users, TTY: 1-877-833-8855

Accessory Purchases (United States and Puerto Rico)

Purchase Parts, Accessories and Instruction Books online for all Panasonic Products by visiting our Web Site at:

<http://www.pstc.panasonic.com>

Or, send your request by E-mail to:

npcparts@us.panasonic.com

You may also contact us directly at:

1-800-332-5368 (Phone) 1-800-237-9080 (Fax Only)

(Monday-Friday 9am-9pm EST)

Panasonic Service and Technology Company

20421 84th Avenue South, Kent, WA 98032

(We accept Visa, MasterCard, Discover Card, American Express, and Personal Checks)

For hearing or speech impaired TTY users, TTY: 1-866-605-1277

As of December 2010

Product Service

- 1 Damage requiring service**—The unit should be serviced by qualified service personnel if:
 - (a) The AC power supply cord or AC adaptor has been damaged; or
 - (b) Objects or liquids have gotten into the unit; or
 - (c) The unit has been exposed to rain; or
 - (d) The unit does not operate normally or exhibits a marked change in performance; or
 - (e) The unit has been dropped or the cabinet damaged.
- 2 Servicing**—Do not attempt to service the unit beyond that described in these operating instructions. Refer all other servicing to authorized servicing personnel.
- 3 Replacement parts**—When parts need replacing ensure the servicer uses parts specified by the manufacturer or parts that have the same characteristics as the original parts. Unauthorized substitutes may result in fire, electric shock, or other hazards.
- 4 Safety check**—After repairs or service, ask the servicer to perform safety checks to confirm that the unit is in proper working condition.

Product information

For product information or assistance with product operation: Refer to “Customer Services Directory” on page 17.

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USA Only: Disposal may be regulated in your community due to Environmental considerations. For disposal or recycling information, please visit Panasonic Website:
<http://www.panasonic.com/environmental>
 or call 1-888-769-0149.

Information on Disposal in other Countries outside the European Union



This symbol is only valid in the European Union. If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.

User memo:

DATE OF PURCHASE _____
 DEALER NAME _____
 DEALER ADDRESS _____

 TELEPHONE NUMBER _____

The model number and serial number of this product can be found on either the back or the bottom of the unit. Please note them in the space provided below and keep for future reference.
 MODEL NUMBER DVD-LS92
 SERIAL NUMBER _____

Panasonic Consumer Electronics
 Company, Division of Panasonic
 Corporation of North America
 One Panasonic Way Secaucus,
 New Jersey 07094
<http://www.panasonic.com>

