



Dear customer

DVD-LS90

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.

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

Unless otherwise indicated, illustrations in these operating instructions are of DVD-LS90.



Operating Instructions

Portable DVD/CD Player

Model No. DVD-LS90 DVD-LS93

DVD-LX95

MULTI-FORMAT PLAYBACK

DVD-RAM

recorded with DVD video recorders etc.

Video & Still pictures (JPEG)

DVD-RW (DVD-VR) recorded with DVD video recorders etc.

DVD-Video/Video CD/CD

sold on the market

Movie, Music etc.

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

recorded and finalized with DVD video recorders etc

Video (played as DVD-Video)

CD-R/CD-RW

recorded and finalized with personal computers etc.

Music (WMA/MP3) & Still pictures (JPEG)

See page 5 for details.









For U.S.A.:

The warranty can be found on page 28.

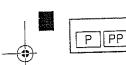
For Canada:

The warranty can be found on page 30.

If you have any questions contact

In the U.S.A.: 1-800-211-PANA(7262)

In Canada: 1-800-561-5505

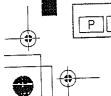






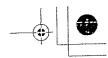
RQT8067-P













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 APPARATUS.

CAUTION!

THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OF ADJUSTMENTS
OR PERFORMANCE OF PROCEDURES
OTHER THAN THOSE SPECIFIED HEREIN
MAY RESULT IN HAZARDOUS
RADIATION EXPOSURE.
DO NOT OPEN COVERS AND DO NOT
REPAIR YOURSELF. REFER SERVICING
TO QUALIFIED PERSONNEL.

CAUTION!

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.

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 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.

Marking sign is located on bottom of the unit.

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

CAUTION- VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED.

IEC60825-1/ Class 3b

AVOID EXPOSURE TO BEAM. ATTENTION-RAYONNEMENT LASER VISIBLE ET INVISIBLE DANGEREUX EN CAS D'OUVERTURE ET LORSQUE LA SÉCURITÉ EST NEUTRALISÉE. EXPOSITION DANGEREUSE AU FAISCEAU.

(Bottom of product)

THE FOLLOWING APPLIES ONLY IN THE U.S.A. CAUTION:

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 that the provide reasonable that the provide reasonable that the provide reasonable that the provider reasonable that the p protection against harmful interference in a residential installation. This equipment 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. narmful 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.
- neonem or relocate the receiving and 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.

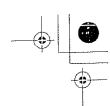
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. operation.













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

- But
 In the U.S.A. and Canada, the AC power supply cord 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.
 When connecting to a supply of greater than AC 125 V, ensure the cord you use is suited to the voltage of the AC supply and the rated current of the AC adaptor.
 Contact an electrical parts distributor for assistance in selecting a suitable AC plug adaptor or AC cord set.

DVD-LS90

THE FOLLOWING APPLIES ONLY IN CANADA

NOTICE:
Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Table of contents

IMPORTANT SALETT
INSTRUCTIONS 4
Accessories5
ar was a a a a a a a a a a a a a a a a a a
Deanarations
Attaching the battery6
Attaching the battery 6 The remote control
A The remote control
Adjusting the LCD angle 7
Suggestion and the State of the
Play
and the second of the second o
40
Useful functions 10
Enjoying higher quality
audio and video 12
Program/Random play 13
Diaging data discs
Playing a HighMAI'm discs
Playing programs/Playlist
on RAM discs
Playing CD
Using On-Screen Menus 16
Changing the player settings 18
Using this unit with
other equipment20
Using a car adaptor21
Franciently asked questions
Tips for making WMA/MP3
and JPEG discs22
Specifications
Troubleshooting guide 24
Maintenance
Limited Warranty
(ONLY FOR U.S.A.)28
Product Service29
Limited Warranty
(ONLY FOR CANADA) 30

Main feature index.....Back cover



Table of contents



Do not rest the unit on your lap for a long time while using it. The unit can became hat and

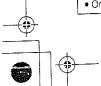
To prevent damage

- Avoid the following:
 Soraying 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.









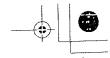






SAFETY INSTRUCTIONS

MPORTANT





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. future reference.

- Read these instructions.
- Keep these instructions. Heed all warnings.

- Heed all warnings.
 Follow all instructions.
 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) 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.



- 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.

Batteries

- 1. Battery pack (Lithium ion battery pack)
 - Use this unit to recharge the battery pack.
 - Do not use the battery pack with
 - equipment other than the specified player. •Do not use the player outside if it is snowing or raining. (The battery pack is
 - not waterproof.) Do not get dirt, sand, liquids, or other
 - foreign matter on the terminals. Do not touch the plug terminals (+ and
 - -) with metal objects. Do not disassemble, remodel, heat or throw into fire.
- 2. Button-type battery (Lithium battery)
- •Insert with poles aligned.
 - Do not touch the terminals (+ and −) with metal objects.
 - Do not disassemble, remodel, heat or throw into fire.
- Keep out of reach of children. If any electrolyte should come into contact with your hands or clothes, wash it off thoroughly with water.

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

3. Disposing of the batteries Check and follow your local regulations before disposal.

CAUTION:

The batteries used in this device may present a risk of fire or chemical burn if mistreated. Do not disassemble or incinerate the batteries. Do not heat the batteries above the following temperatures

Button-type battery Battery pack

100 °C (212 °F) 60 °C (140 °F)

Cornot recharge the button-type battery. Replace only with Panasonic part number indicated below:

Button-type battery (Lithium battery) CR2025

(for remote control)

Battery pack (Lithium ion battery pack)

DVD-LS90 DVD-LS93

CGR-H702 CGR-H703

Optional battery pack

(Lithium ion battery pack)

DVD-LS90

fire or explosion.

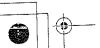
222 222 ???-???

DVD-LS93 io of other batteries may p

A lithium ion/polymer battery that is recyclable powers the product you have purchased. Please call 1-800-8-BATTERY for information on how to recycle this battery.















Accessories



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

(Only for U.S.A.) To order accessories, refer to "Accessory Purchases" on page 29. (For other areas) To order accessories, call the dealer from whom you have made your purchase.

	Remote control (N2QAHC000021) Button-type battery for remote control (for replacement, see page 7.)
\Box 1	Audio/video cable (K2KA6CB00003)

☐ 1 Rechargeable battery pack (CGR-H702) (CGR-H703) DVD-LS93 or replacement: Available from Panasonic dealers

☐ 1 AC adaptor (RFEA213W-W)
☐ 1 AC power supply cord (K2CB2CB00006)

☐ 1 Car DC Adaptor (RFEC201M)

 The included AC power supply cord and AC adaptor are for use with this unit only. Do not use them with other equipment.

Discs that can be played

Operations in these instructions are described mainly with the formats. The icons such as



DVD-RAM GAM JPEG

Recorded with devices using Version 1.1 of the Video Recording Format (a unified video recording standard), such as DVD

video recorders, DVD video cameras, personal computers, etc.

• <u>JPEG</u> Recorded using the DCF (Design rule for Camera File system)

Standard Version 1.0. To play JPEG files, select "Play as Data Disc" (→ page 17, Other Menu).



DVD-Video DVDV

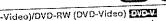
Discs marked with the labels containing the region number "1" or "ALL"







Accessories/Discs that can be played



DVD-R (DVD-Video)/DVD-RW (DVD-Video) Discs recorded and finalized* on DVD video recorders or DVD video cameras



DVD-RW (DVD-VR) (DVD-RW (VE)

Recorded with devices using Version 1.1 of the Video Recording Format (a unified video recording standard), such as DVD video recorders, DVD video cameras, personal computers, etc.

+R (Video)/+RW (Video)

Discs recorded and finalized* on DVD video recorders or DVD video



Video CD VIII Including SVCD (Conforming to IEC62107)



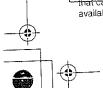
CD CD WMA MP3 JPEG YEE

- This unit can play CD-R/RW recorded with the above formats. Close the sessions or finalize* the disc after recording.
- WMA MP3 JPEG This unit also plays HighMAT discs.
- *A process that allows play on compatible equipment.
- It may not be possible to play the above discs in all cases due to the type of disc or condition of the recording.

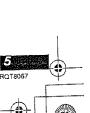
Discs that cannot be played

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



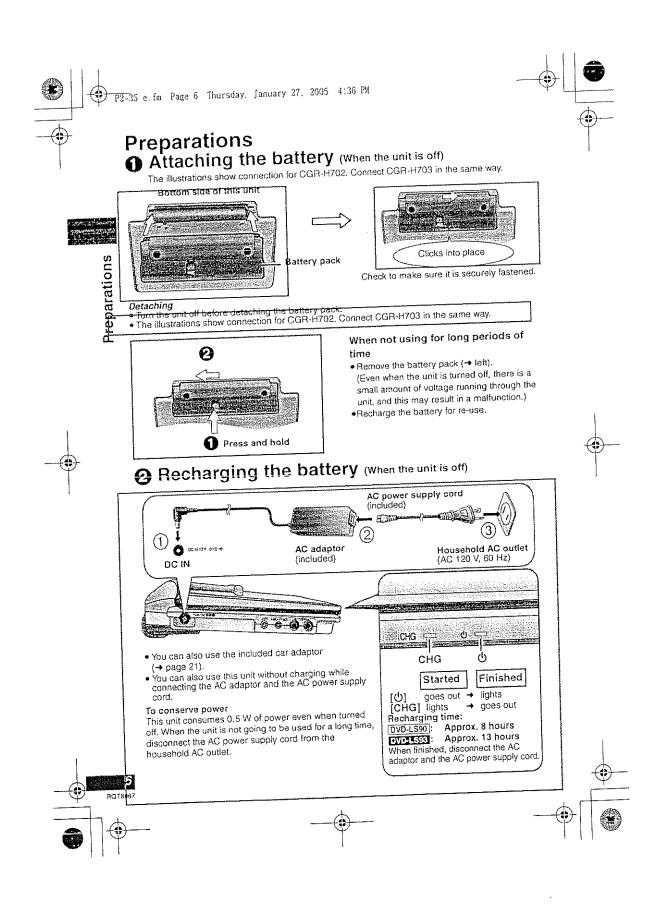


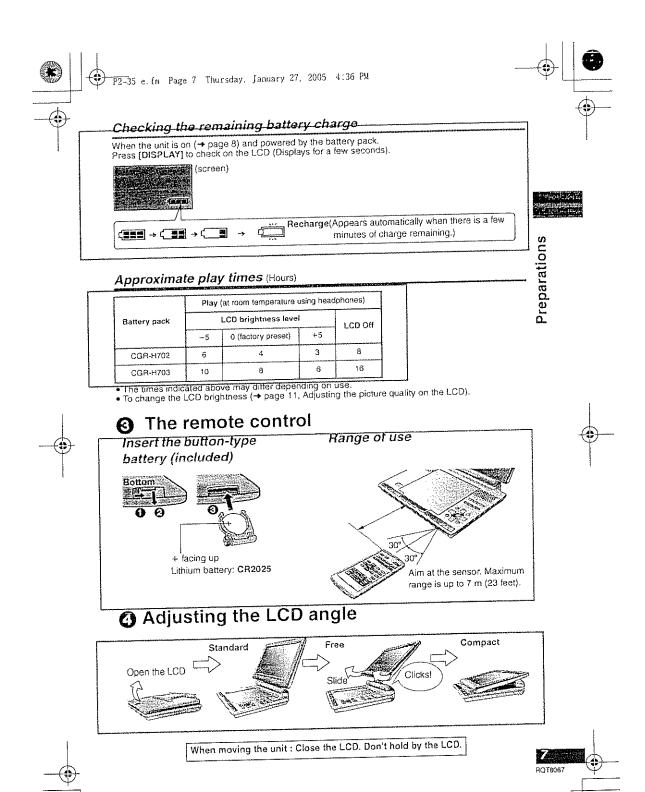


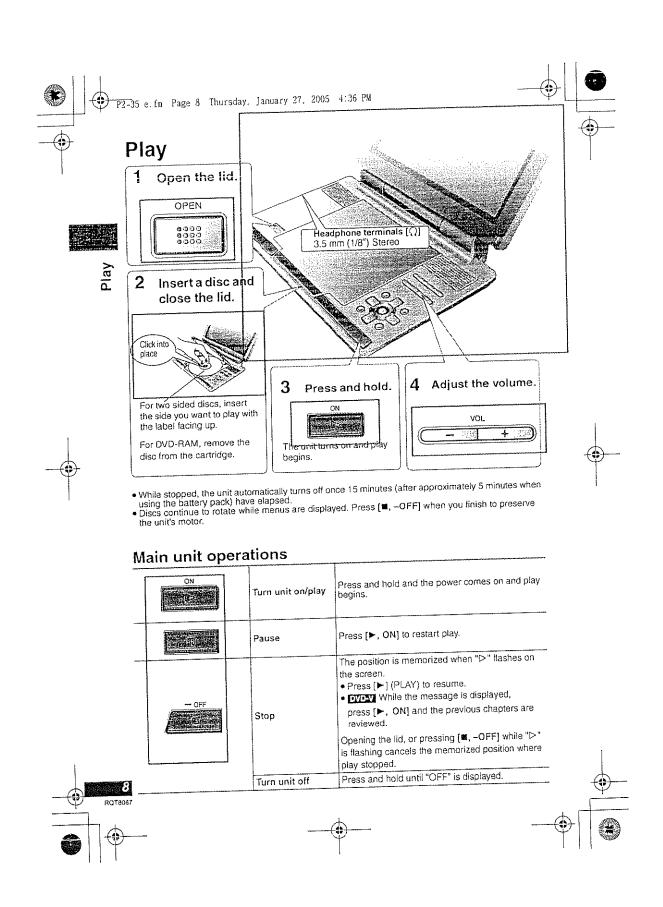


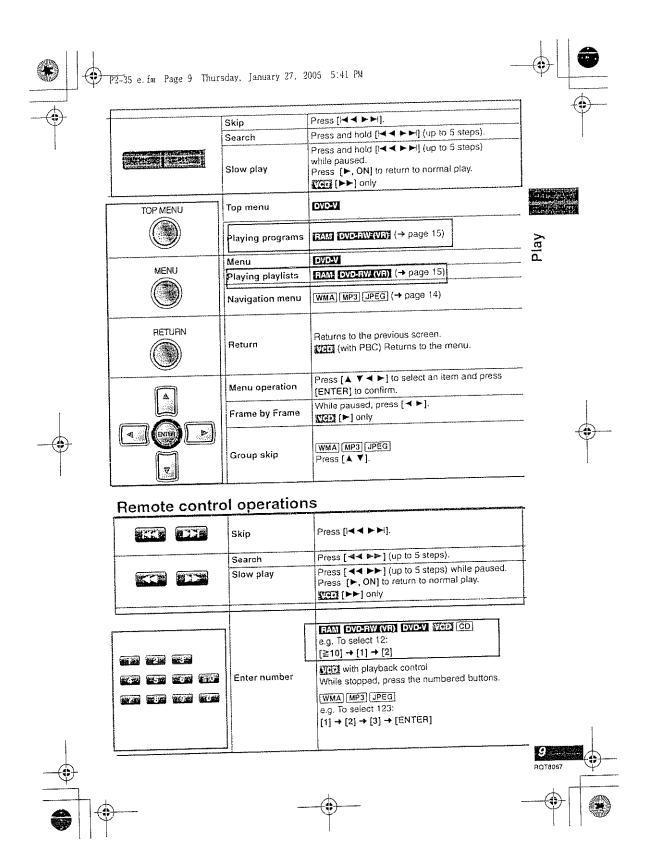


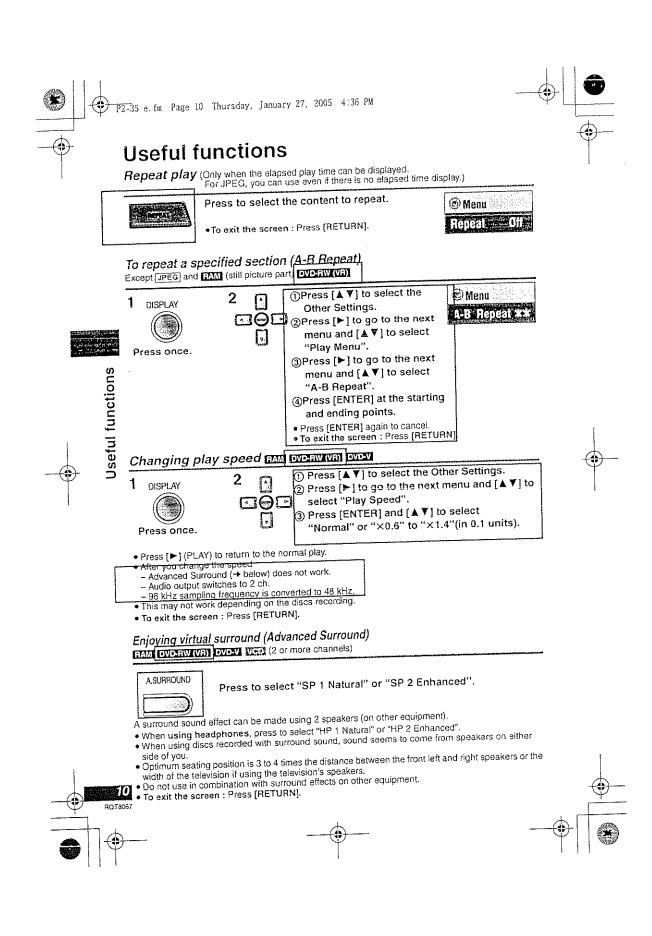


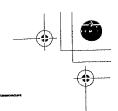












Useful functions

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

MONITOR MODE

1

Press to select the monitor mode.

NORMAL:

Stretched horizontally FULL: Stretched vertically ZOOM:

No picture

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

close it.

Adjusting the picture quality on the LCD



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

• To exit the screen : Press [PICTURE MODE].

Changing soundtracks (with multiple soundtracks) FAM (OVERW (VE)) (CEE



Press to select the soundtrack.

Menu Menu Audio 1



You can use this button to select "L", "R" or "L R".

OVE-V (Karaoke discs)

To exit the screen: Press [RETURN].

Signal type/data

LPCM/BD Digital/DTS/MPEG: Signal type kHz (Sampling frequency)/bit/ch (Number of channels) Example: 3/2 _1ch

Low frequency effect (not displayed if there is no signal)

No surround Mono surround

Stereo surround (left/right) Center

2: Front left+Front right
3: Front left+Front right+Center

Changing subtitles [VOV] (with subtitles) VOFI (SVCD only)

FAM DVD-RW (VA)
(On/Off only with discs that contain subtitle on/off information)



Press to select the subtitle language.

• To exit the screen : Press [RETURN].



On +R/+RW, a subtitle number may be shown for subtitles that are not displayed.
 To clear/display the subtitles
 Press [◄ ►] to select "On" or "Off".

Press to select "On" or "Off".

Subtitle on/off information cannot be recorded using Panasonic DVD Recorders

Angle select [Wext] (with multiple angles) / Still picture rotation [JPEG]



(Remote control)

Press to select the angle or rotate the still picture.

To exit the screen: Press [RETURN].

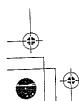




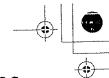












Enjoying higher quality audio and video

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

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

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

Enjoying higher quality audio and video









Press once.

- ①Press [▲▼] to select the Other Settings.
- ②Press [►] to go to the next menu and [▲ ▼] to select
- "Audio Menu". ③Press [►] to go to the next menu and [▲ ▼] to select "Multi Re-master".
- ④Press [ENTER] and [▲▼] to select "1", "2" or "3".
- To exit the screen: Press [RETURN].

Setting	OVEV CD (LPCM) Type of music	Other discs Effect level	
	High tempo (e.g., pop and rock)	Light	
1	Various tempos (e.g., jazz)	Medium	
3	Low tempo (e.g., classical)	Strong	
Off	Off may not work when connecting with a digital	Off	

Picture Mode







Press once.

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

- Cinema1: Mellows images and enhances detail in dark scenes.
- Cinema2: Sharpens images and enhances detail in dark scenes.
- To exit the screen : Press [RETURN].



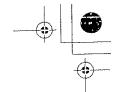
The above indicated features may not work depending on the disc's recording.













Program/Random play Remote control only



While stopped Press to change.

----→ Random Program — L Off (Normal play) ←

 Disable HighMAT disc play to use random and program play. Select "Play as Data Disc" in Other Menu. (→ page 17).

Program play (up to 32 items)

e.g. DVDV

Press to select an item 2

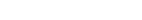
(→ page 9).

Repeat this step to program other items.









Selecting all the items (on the disc or in the title or group) Press [ENTER] and [▲▼] to select "ALL", then press [ENTER] again to register.

Changing the program

Press [▲ ▼] to select an item.

-To change an item, repeat step 1.

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

Clearing the whole program

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

Random play

e.g. **DVD-V**

DVD-V WMA MP3 JPEG

2

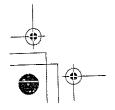


Press to select an item (→ page 9).

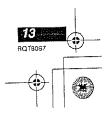


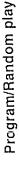
To exit the program or random mode

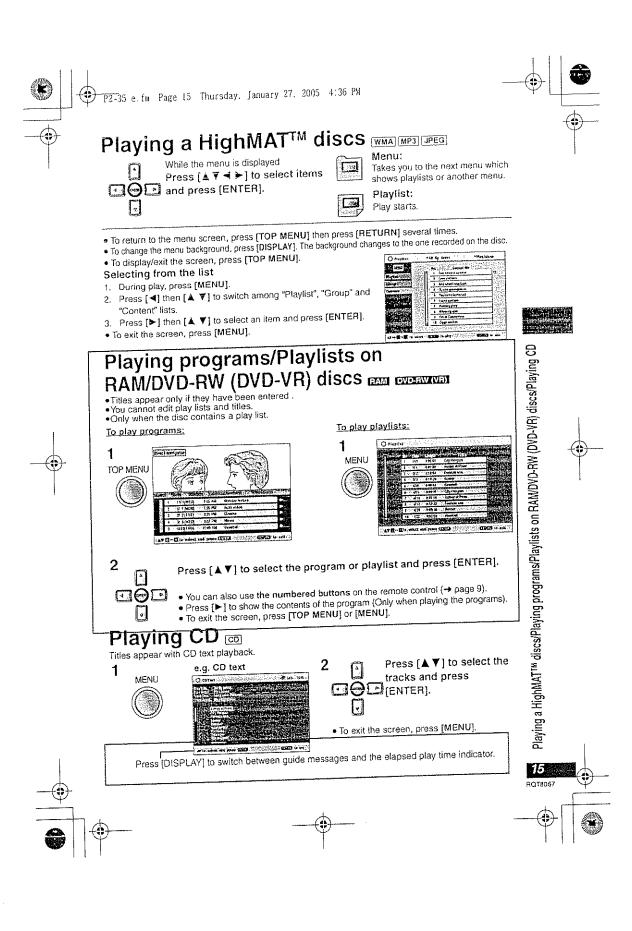
Press [PLAY MODE] several times while stopped.

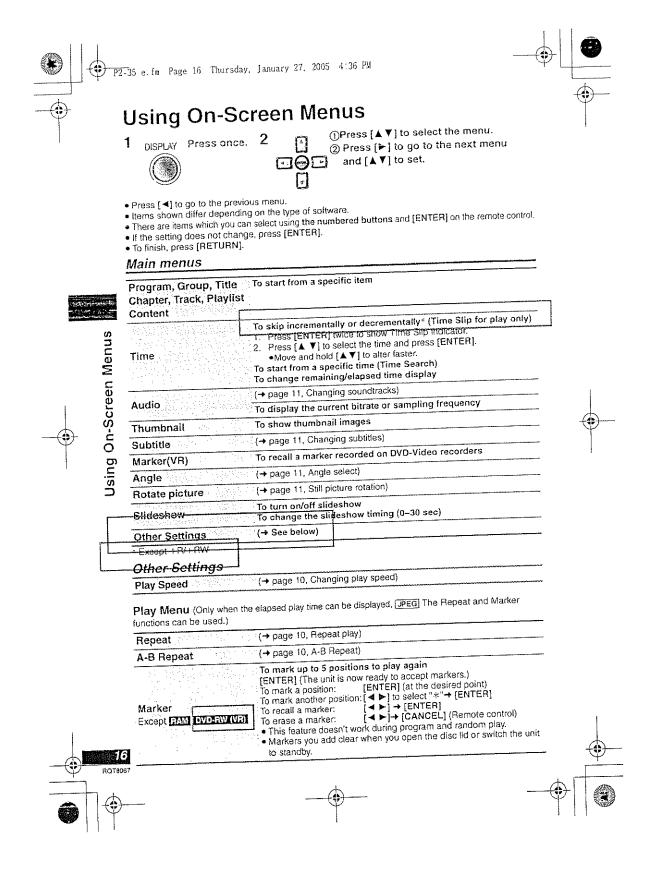












P2-35 e.fm Page 17 Thursday, January 27, 2005 4:36 PM

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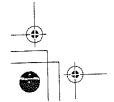
Picture Mode	(→ page 12, Picture Mode)
Audio Menu	
	· · · (→ page 10, Enjoying virtual surround)
Advanced Surround	To make the dialogue in movies easier to hear
	(Dolby Digital, DTS, 3-channel or over, with the dialogue
Dialogue Enhancer	recorded in the center channel)
	On ←→ Off
Multi Re-master	(→ page 12)
Display Menu	
Information	On ←→ Off (JPEG): Off, Date, Details)
Subtitle Position	0 to -60 (in 2 units)
Subtitle Brightness	○ Auto, 0 to -7
	RAM DVD-RW (VR) DVD-V (VCD)
Just Fit Zoom	To experit the tetrettox picture to fit the screen.
	Press [▲▼] to select the preset aspect ratio or "Auto".
	RAM DVD-RW (VR) CVD-V (VED)
	Press [A V for line adjustments. (Press and hold to alter faster.
Manual Zoom	-from × 1.00 to × 1.60 (in 0.01 units)
	-fron - × 1.60 to × 2.00 (In 0.02 units)
Bitrate Display	FAM DVD-RW (VR) LVD-V VOR On Off
GUI See-through	on ←→ Off
Other Menu	
Setup	(→ page 18, Changing the player settings)
Play as DVD-VR Play as HighMAT	 While stopped, select "Play as Data Disc" to play JPEG files of DVD-RAM or to play a HighMAT disc without using the HighM function.

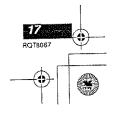
Checking the play status (Elapsed play time indicator)

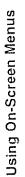
Press [DISPLAY] twice. Condition-play, pause or slow/search Current position Current position Play mode ---: Normal Play ALL: All Group Play PGM: Program Play RND: Random Play RND: Random Play Current playback item Press [A V] to change. (WMA/MP3/SVCD can only display elapsed time.)

• To exit, press [RETURN].

or Play as Data Disc







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

To return to the previous screen, press [RETURN].

To finish the SETUP menu, press [SETUP].

 While stopped, the menu is also displayed when [MENU] on the main unit is pressed, however, when a DVD-RAM or HighMAT CD is being used a playlist menu appears.

Other******

Spanish

Original (The original language designated on the disc is selected)

Other*****

• Automatic [If the language selected for "Audio" is not available, subtitles appear in that language (If available on the disc).]

Spanish English
 ● French

●Other**** • Spanish French English

Setting ratings (When level 8 is selected)

• 8 No Limit.

1 to 7: Prohibits play corresponding to ratings recorded on the disc.
 0 Lock All: To prevent play of discs without ratings levels.
 When setting a ratings level, a password screen is shown.
 Follow the on-screen instructions.

Do not forget your password.

A message screen will be shown if a DVD-Video exceeding the ratings level is inserted in the unit. Follow the on-screen instructions.

※Input a code number referring to the table on page 19.

"Video" tab

Subtitle

Menus

play.

Ratings

screen

Set a ratings level

to limit DVD-Video

Follow the on-

instructions.

TV Aspect Choose the setting to suit your television and preference.

Specify the type of picture shown when paused.

4:3 Pan&Scan: Regular aspect television (4:3)
 The sides of the widescreen picture are cut off so it fills the screen (unless prohibited by the disc).

4:3 Letterbox: Regular aspect television (4:3)
 Widescreen picture is shown in the letterbox style.

16:9: Widescreen television
Use the television's screen modes to change the way the picture is shown.

Still Mode

• Field: The picture is not blurred, but picture quality is lower. • Frame: Overall quality is high, but the picture may appear blurred.

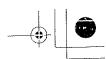












Audio" tab PCM Digital Output* Dolby Digital* DTS Digital Surround*	Check the digital input limitations of the equipment you connect and select the maximum sampling frequency of PCM digital output. Off: When not connected using a digital optical cable When connected to equipment compatible with 44.1 or 48 kHz. When connected to equipment compatible with 88.2 or 96 kHz When connected to equipment compatible with 176.4 or 192 kHz When connected to equipment compatible with 176.4 or 192 kHz When connected to equipment compatible with 176.4 or 192 kHz Signals from copy-protected discs are converted to 48 or 44.1 kHz. Signals from copy-protected discs are converted to 48 or 44.1 kHz. Signals from copy-protected discs are converted to 48 or 44.1 kHz. Signals from copy-protected discs are converted to 48 or 44.1 kHz. Signals from copy-protected discs are converted to 48 or 44.1 kHz. Signals from copy-protected discs are converted to 48 or 44.1 kHz. Signals from copy-protected discs are converted to 48 or 44.1 kHz. Signals from copy-protected discs are converted to 48 or 44.1 kHz. Signals from copy-protected discs are converted to 48 or 44.1 kHz. Signals from copy-protected discs are converted to 48 or 44.1 kHz. Signals from copy-protected discs are converted to 48 or 44.1 kHz. Signals from copy-protected discs are converted to 48 or 44.1 kHz. Signals from copy-protected discs are converted to 48 or 44.1 kHz. Signals from copy-protected discs are converted to 48 or 44.1 kHz. Signals from copy-protected discs are converted to 48 or 44.1 kHz. Signals from copy-protected discs are converted to 48 or 44.1 kHz. Signals from copy-protected discs are converted to 48 or 44.1 kHz. Signals from copy-protected discs are converted to 48 or 44.1 kHz. Signals from copy-protected discs are converted to 48 or 44.1 kHz. Signals from copy-protected discs are converted to 48 or 44.1 kHz. Signals from copy-protected discs are converted to 48 or 44.1 kHz. Signals from copy-protected discs are converted to 48 or 44.1 kHz. Signals from copy-protected discs are converted to 48 or 44.1
	_ ^!!

Dynamic Range Compression :

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).

Off

• Off • <u>On</u>

Audio during Search Choose whether to have sound during search

#Only when connected using a digital optical cable (→ page 20)
 "Disptay" tab

Menu Language On-Screen Messages

◆Français →Español • <u>English</u> • <u>On</u> • Off

"Others" tab
HighMAT
Selects the play method for
HighMAT discs

Re-initialize Setting
This returns all values in the
Setup menus to the default
settings

€nable: Plays as HighMAT

• Disable: Plays as WMA/MP3/JPEG

Yes: The password screen is shown if "Ratings" (→ page 18)
are set. Please enter the same password. After "Initialized"
on the display disappears, turn the unit off and on again.

No

Language code list

	•				7777 1	Majorana	77711	Samoan:	8377 1	i ibetan:	00/9
Abkhazian:		Chinese:	9072	Hindi:	7273	Malagasy: Malay:	7783	Sanskrit:	8365	Tigrinya:	8473
Afar:	6565	Corsican:	6779	Hungarian:		Malayalam:		Scots Gaeti		Tonga:	8479
Afrikaans:	6570	Croatian:	7282	Icelandic:	7383	Maltese:	7784	00010	7168	Turkish:	8482
Albanian:	B381	Czech:	6783	Indonesian:		Maori:	7773	Serbian:	8382	Turkmen:	8475
Ameharic:	6577	Danish:	6865	Interlingua:	7165	Marathi:	7782	Serbo-Croa	tian:	Twi:	8487
Arabic:	6582	Dutch:	7876	Irish:			7779	35.55 5.0=	8372	Ukrainian:	8575
Armenian:	7289	English:	6978	Italian:	7384 7465	Mongolian:		Shona:	837B	Urdu:	8582
Assamese:	6583	Esperanto:	6979	Japanese:	7487	Nauru:	7865	Sindhi:	8368	Uzbek:	8590
Aymara:	6589	Estonian:	6984	Javanese.	7578	Nepali:	7869	Singhalese	8373	Vietnamese	e:
Azerbaijani		Faroese:	7079	Kannada:	7583	Norwegian:		Slovak:	8375		8673
Bashkir:	6665	Fiji:	7074	Kashmiri:	7575	Oriya:	7982	Stovenian:	8376	Volapük:	8679
Basque:	6985	Finnish:	7073	Kazakh:	7589	Pashto, Pus		Somali:	8379	Welsh:	6789
Bengali; 8a		French:	7082	Kirghiz:	7579	rasino, i u	8083	Spanish:	6983	Wolaf:	8779
	6678	Frisian:	7089	Korean:	7585	Persian:	7065	Sundanese	:8385	Xhosa:	8872
Bhutani:	6890	Galician:	7176	Kurdish:	7679	Polish:	8076	Swahili:	8387	Yiddish:	7473
Bihari:	6672	Georgian:	7565	Laotian:	7665	Portuguese		Swedish:	8386	Yoruba:	8979
Breton:	6682	German:	6869	Latin:		Puniabi:	8065	Tagalog:	8476	Zulu:	9085
Bulgarian:	6671	Graek:	6976	Latvian, La		Quechua:	8185	Tailk:	8471		
Burmese:	7789	Greenlandi		1	7686	Rhaeto-Ron		Tamil:	8465		
Byelorussi	an:	Guaranti	7178	Lingala:	7678	Husero-tron	8277	Tatar:	8484		
	6669	Gujarati:	7185	Lithuanian:		D		Telugu:	8469		
Cambodia	n:7577	Hausa:	7265	Macedonia		Romanian:	8285		8472		
Catalan:	6765	Hebrew:	7387	ļ	7775	Russian:	0480	I trial.	3714		

Changing the player settings

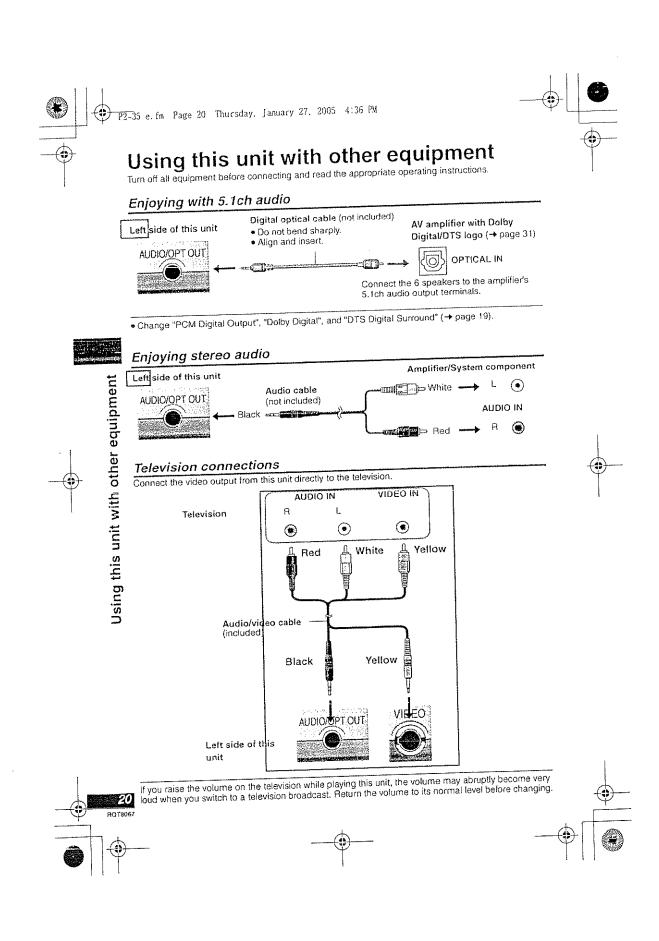






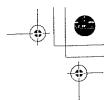








P2-35 e.fm Page 21 Thursday, January 27, 2005 4:36 PM

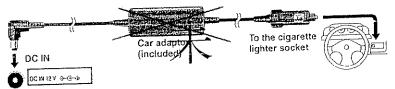




- Using a car adaptor (included)

 In the interest of traffic safety, do not perform operations on this unit or view video software while driving a vehicle.

 Read the car adaptor's operating instructions carefully.



Left side of this unit Place the unit on a stable surface.



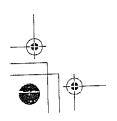
You can enjoy audio through your car audio system by connecting a car stereo cassette adaptor (not included RP-CC20) to the headphone jack on the left side of this unit.



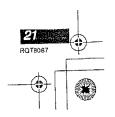
Using a car adaptor











DVD-LX95 FM transmitter

You can enjoy listening to discs through your FM radio channel (e.g. car stereo) by transmitting audio signals from this unit.

1



Press to switch the FM transmitter on.

On position

2

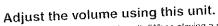
FM transmitter

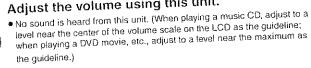


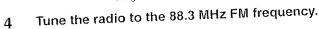
Play.

3









Adjust the volume using the radio.

To turn off the FM transmitter

Press [FM-TM ON/OFF] to return to the original position.

When this has not been successful

Press to display the menu.



2



 Noise is heard Select "MONO" using [◀►].

- When there is interference with the local FM stations
 - ① Select "88.3 MHz" (factory preset) using [▼].
 - ② Using [◀▶], select a frequency between 88.3 MHz and 90.3 MHz which is not being used by a broadcasting station.
 - The frequency can be set in 0.1 MHz increments.
- Tune the FM radio into the frequency selected in step 2. 3

To exit from the FM transmitter menu Press [FM-TM MODE].



Ensuring proper use of the FM transmitter

(Operating Instructions, page 26)

Volume adjustment

Set the unit's volume, referring to the scales shown below, then adjust the volume on the FM radio to the desired level.
If an unsuitable volume level is set, the audio may be distorted or be very noisy.

Video software



Set close to the maximum level of the volume scale

Music software



Set near the middle of the volume scale

- Volume levels differ depending on the software. If the audio is distorted or very noisy under the above settings, readjust the volume level on the unit.
- Be sure to lower the volume on the FM radio before performing the following actions on the unit. The output may be extremely loud unless the volume is lowered.
 - Turning the unit ON/OFF
 - Turning the FM transmitter ON/OFF
 - Changing the FM transmitter settings
 - Connecting or disconnecting cables (audio/video cables, headphones, etc.)

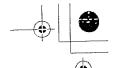
Reception range

- Use the unit and FM antenna within a range of 2 m^{-#} (6.5 feet). FM transmission may not be possible
 in all cases due to certain condition.
- *Depends on the quality of the FM radio receiver (limited by FCC regulations).
- Make sure there are no obstacles between the unit and FM antenna.
- FM transmitter does not work when the audio/video cable or headphones are connected.

Usage in a vehicle

In the interests of the traffic safety, do not perform operations on this unit or view video software while driving a vehicle.







Reference pages are shown in parentheses.

What kind of equipment is necessary to enjoy 5.1ch audio?	Connect to an AV amplifier (that has 5.1ch audio output terminals) displaying the Dolby Digital/DTS logo. (31)
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.
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 adaptor for power. Damage may occur if you do not use the specified car adaptor. (21)
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 the peripheral equipment.



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

Discs must conform to ISO9660 level 1 or 2 (except for extended formats).
This unit is compatible with multi-session but if there are a lot of sessions it takes more time for play to start. Keep the number of sessions to a minimum to avoid this.
If groups were created away from the root like "002 group" in the illustration below, the eighth one onwards is displayed on the same vertical line in the menu screen.
There may be differences in the display order on the menu screen and computer screen.
This unit cannot play files recorded using packet write.

Paging folders and files

e.g. [MP3]

root ool group

Naming folders and files (Files are treated as content and folders are treated as groups on this

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). ".wpa" or ".mp3"
".JPEG" or ".jpeg"
"JPEG" or ".jpeg"

WMA

 You cannot play WMA files that are copy protected.
 This unit is not compatible with Multiple Bit Rate (MBR: a file that contains the same content encoded at several different bit rates).

MP3

This unit is not compatible with ID3 tags.

• Compatible sampling rate: 8, 11.02, 12, 16, 22.05, 24, 32, 44.1, and 48 kHz

 JPEG files taken on a digital camera that conforms to the DCF Standard Version 1.0 are displayed.
 JPEG files taken on a digital camera functions not supported by DCF like automatic picture rotation. Pictures taken using digital camera functions not supported by DCF like automatic picture rotation

may not be displayed. Files that have been altered, edited or saved with computer picture editing software may not be

•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.



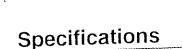












Operating temperature range:

+5 to +35 °C (+41 to +95 °F)

Operating humidity range:

5-85 % RH (no condensation) Discs played [8 cm (3 ") or 12 cm (5 ")]:

(1) DVD (DVD-Video) (2) DVD-RAM (DVD-VR, JPEG*4.5) (3) DVD-R/RW (DVD-Video)

(4) +R/RW (Video)

 (4) +H/HVV (VIGEO)
 (5) CD, CD-R/RW [CD-DA, Video-CD, SVCD*¹, MP3*2.5, WMA*3.5, JPEG*4.5. HighMAT Level 2 (Audio and Image)]

Signal system: 9" α-Si, TFT wide-screen LCD NTSC Composite-video output:

1 Vp-p (75 Ω) Output level: Mini-jack Output terminal: 1 system Number of terminals:

Audio output:

Output level: 1.5 Vrms (1 kHz, 0 dB, 10 k Ω) Stereo mini-jack Output terminal: Number of terminals: 1 system

Audio performance:

(1) Frequency response:

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

CD audio:

(2) S/N ratio:

CD audio:

(3) Dynamic range:OVD (linear audio): 98 dB 97 dB CD audio:

(4) Total harmonic distortion:

0.008 % CD audio:

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

662 nm/785 nm (DVD/CD) Wave length: Laser power: CLASS 2/CLASS 3A (DVD/CD)

FM transmitter PVD-18:5: LXQS (On A)
Frequency Modulation: 88.3 MHz - 98.3 MHz (Digital tuning in 0.1 MHz steps) Stereo / Mono Output system: (selection is possible)

DC 12 V (DC IN terminal)/ DC 7.2 V (Exclusive battery terminal) Power consumption (using included AC adaptor): 13 W (Unit only: 10 W)

Power consumption in standby mode: (using included AC adaptor)

approx, 0.5 W Power consumption in Recharge mode:

(using included AC adaptor)

AC adaptor: AC 100-240 V, 50/60 Hz Power source: Power consumption: 12 V, 1.5 A DC output:

Battery pack (lithium ion)

CGR-H702 (DVD-LS90 included): 7.2 V Voltage:

4700 mAh Capacity: CGR-H703 (DVD-LS93 included):

Voltage:

7.2 V 8600 mAh Capacity:

Dimensions (WXDXH)

(excluding protrusions and battery):

DVD-LS90]:235mm×183.7mm×52.7 " mm (? 1/1×? 1/1×? 1/1/1)

29.9 mm (1 3/4") at lowest point [H=52.7 mm (2 1/4") including battery] DVD-1353: 235mm×200.6mm×542 mm DVD-1445 (? 1/2* × 7 1/2* × 7 1/2*)

#29.9 mm (1 3/4") at lowest point

[H=54.2 mm (2 1/6") including battery]

Mass (including battery):

[DVD-LS90]:1100 g (38.8 oz.) DVD-LS93 :1300 g (45.85 oz.) DVD-1895: 1320g

115 dB

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

Conforming to IEC62107

Compatible compression rate: between 32 kbps and 320 kbps

*3 Compatible compression rate: between 48 kbps and 320 kbps

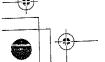
** Fxif Ver 2.1 JPEG Baseline files Picture resolution: between 320×240 and 6144×4096 pixels (sub sampling is 4:2:2 or 4:2:0)

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











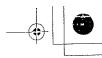








P2-35 e.fm Page 24 Thursday, January 27, 2005 4:36 PM





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 the "Customer Services Directory" on page 29 if you reside in the U.S.A., or refer to the "Product information" on page 29 if you reside in Canada. In other areas, consult your dealer for instructions. (Reference pages are shown in parentheses.)

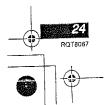
The following do not indicate malfunction.

Sound from the AC adaptor during recharging. The battery pack warming up when recharging or during use. The surface and area around the unit becoming warm when used for long periods. Power Check connections to the AC adaptor or battery pack. (6) You cannot turn on the unit with the remote control if the unit is powered by the battery pack. No power. The unit turns off after it has been stopped for about 15 minutes (5 minutes when the unit is powered by the battery pack) to conserve power. Turn the unit on again. Unit turns off automatically. The unit and battery pack have protection circuitry that activate if they become too hot or too cold. They will not work if this occurs. Use the unit and battery pack between 5 °C (41 °F) and 35 °C (85 °F). Unit doesn't work when powered by battery pack. The battery pack can only be recharged when the unit is off. The charging time increases when the temperature is too hot or too cold, and charging may not be possible under some circumstances. Check connections to the AC adaptor or battery pack. (6) Cannot charge or the [CHG] indicator fails to light. The battery pack has reached the end of its service life (It can be Play time dramatically recharged about 300 times). reduced after recharging. No operation This unit cannot play discs other than the ones listed in these No response when any buttons pressed. operating instructions. (5) operating instructions. (5) The unit may not be operating properly due to lightning, static electricity or some other external factor. Turn the unit off and then back to ON. Alternatively, turn the unit off, disconnect the power source (AC or battery pack), and then reconnect it. Condensation has formed: Wait 1 to 2 hours for it to evaporate.

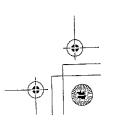
eshooting

No response when remote control buttons pressed.

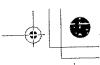
- Check that the batteries are installed correctly. (7)
- Oneck that the batteres are instance confecult. (1)
 The battery is depleted: Replace it with new one. (7)
 Point the remote control at the remote control sensor and operate.
- You have forgotten your ratings password.
- Reset all the settings to Factory Preset.
- No picture or sound.
- White stopped, press and hold [I◄◄] and [II] on the unit and then also press and hold [►, ON] on the unit until "Initialized" disappears from the screen. Turn the unit off and on again. All settings will return to the default values.
- check that the disc has something recorded on it.







P2-35 e.fm Page 25 Thursday, January 27, 2005 4:36 PM





Specific operation impossible or incorrect

It takes time before play starts. MP3

 Play may take time to begin when an MP3 track has still picture data. Even after the track starts, the correct play time will not be displayed, however this is normal.

The program and random play functions do not work. DVP-V

These functions do not work with some DVD-Videos.

Menu doesn't appear. भागी with playback control Press [■] twice and then press [►] (PLAY).

Subtitle position is wrong.

Display the subtitles. (11)

No subtitles. The subtitles overlap

closed captions recorded on discs.

Clear the subtitles. (11)

In A-B repeat, point B is automatically set.

The end of an item becomes point B when it is reached.

Play doesn't start. WMA

This unit may not play WMA that contains still picture data.

Adjust the position. ("Subtitle Position" in Display Menu) (17)

Picture incorrect

No picture on the LCD.

 Select a monitor mode other than "OFF" (no picture). (11, Selecting how to show 4:3 aspect pictures on the LCD).

 Adjust the brightness. (11) The LCD is dark.

LCD pixels turn black or radiate different colors.

 The LCD is constructed with precision technology so 99.99 % of the pixels are active, but of the remaining of 0.01 %, there are pixels that may be black or emit light constantly. This phenomenon is not a malfunction.

Picture doesn't appear on the television (or the size of the picture seems wrong).

Check connections. (20)

Check that the television is on.

Check that the input mode on the television is correct.

Check the settings in "Video—TV Aspect". (18)

• Turn off the zooming feature on your television if you are using Zoom.

• Ensure that the unit is connected directly to the television, and is not connected through a video cassette recorder. (20)

Menu not displayed correctly.

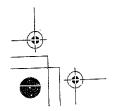
• Restore the zoom ratio to $\times 1.00$. (17) Set "Subtitle Position" in Display Menu to "0" (17)

Auto zoom function does not work well.

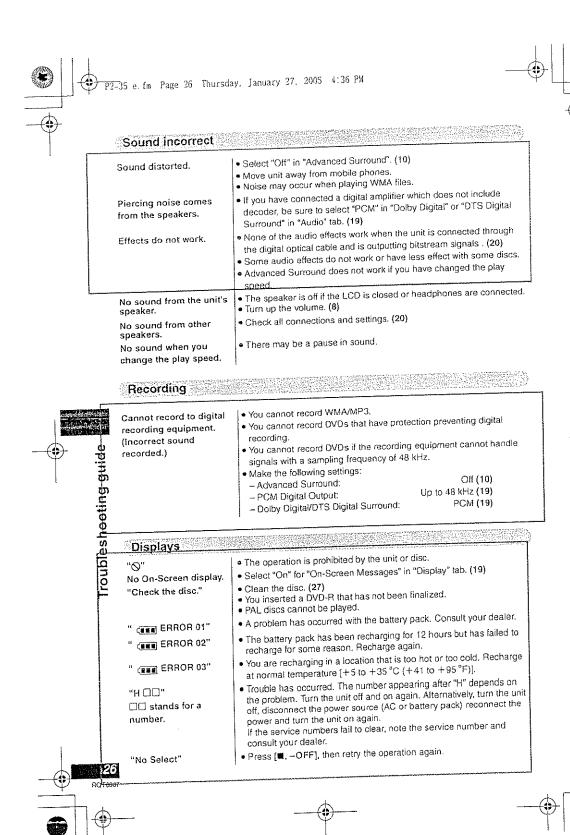
• Use the other preset aspect ratios or manual adjustment. (17)

 Zoom function may not work well, especially in dark scenes and may not work depending on the type of disc.









P2-35 e.fm Page 27 Thursday, January 27, 2005 4:36 PM





্(৬] and [CHG] indicators

The [也] indicator flashes rapidly.

The [也] indicator flashes slowly. The [CHG] indicator

flashes rapidly.

The [CHG] indicator flashes slowly.

- The unit has malfunctioned. Consult your dealer.
- The unit is on and the LCD is closed or the monitor mode is set to "OFF" (no picture). Turn the unit off when you have finished.
- There is a problem with the battery pack. Turn the unit on and check the message on the LCD. (26)
- Battery pack charge is low. The unit will turn off automatically after a few minutes.

Maintenance

To clean this unit, wipe with a soft, dry cloth.

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

Maintenance of the lens

- Remove dust carefully with an air blower for camera lenses (optional).
- Recommended product: Lens cleaner kt (SZZP 1038C) (Available from Panasonic dealers.)
- Be careful not to touch the lens with your fingers.

To clean discs

Wipe with a damp cloth and then wipe dry.

Disc handling precautions

- Do not attach labels or stickers to discs (This may cause disc warping, rendering it unusable).
- Do not write on the label side with a ball-point pen or other writing instrument.
- Do not use record cleaning sprays, benzine, thinner, static electricity prevention liquids or any other solvent.
- Do not use scratch-proof protectors or covers.
- Do not use the following discs:
- Discs with exposed adhesive from removed stickers or labels (rented discs etc).
- Discs that are badly warped or cracked.
- -Irregularly shaped discs, such as heart shapes.

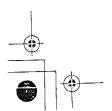




U	ser	memo:

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

Ot mine relevance:	
MODEL NUMBER	
SERIAL NUMBER	











Panasonic Consumer Electronics Company, Division of Panasonic Corporation of North America

One Panasonic Way Secaucus, New Jersey

Panasonic Puerto Rico, Inc. Ave. 65 de Infanteria, Km. 9.5 San Gabriel Industrial Park, Carolina, Puerto Rico 00985

Panasonic DVD Player Limited Warranty

Limited Warranty Coverage
If your product does not work properly because of a defect in materials or workmanship, Panasonic Consumer Electronics Company or Panasonic Puerto Rico, Inc. (collectivelly 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 ("Limited Warranty period"), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished product. The decision to repair or replace will be made by the warrantor.

Product or Part Name	Parts	Labor
DVD Player	One (1) Year	Ninety (90) Days
Rechargeable Batteries (in exchange for defective item)	Ten (10) Days	Not Applicable

During the "Labor" Limited Warranty period there will be no charge for labor. During the "Parts" warranty period, there will be no charge for parts. You must mail-in your product during the warranty period. If non-rechargeable batteries are included, they are not warranted. This Limited Warranty only applies to products purchased and serviced in the United States or Puerto Rico. This Limited Warranty is extended only to the original purchaser and only covers product purchased as new. A purchase receipt or other proof of original purchase date is required for Limited Warranty service.

Mail-In Service
For assistance in the continental U.S.A. in obtaining repairs please ship the product to:
Panasonic Services Company
Customer Servicenter

Suite B

Suite B 4900 George McVay Drive McAllen, TX 78503 For assistance in Puerto Rico call Panasonic Puerto Rico, Inc. (787)-750-4300 or fax (787)-768-2910.

When shipping the unit carefully pack and send it prepaid, adequately insured and preferably in the original carton. Include a letter detailing the complaint and provide a day time phone and/or email address where you can be reached.

IF REPAIR IS NEEDED DURING THE LIMITED 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. OF PURCHASE.

OF PURCHASE.

Limited Warranty Limits And Exclusions
This Limited Warranty ONLY COVERS failures due to
delects in materials or workmanship, and DOES NOT
COVER normal wear and tear or cosmelic damage. The
Limited 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, or commercial use (such as hotel, office,
restaurant, or other business), rental use of the product, or
service by anyone other than a Factory Servicenter or other
Authorized Servicer, or damage that is attributable to acts of
God.

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, cost of having someone remove or re-install an installed unit if applicable, travel to and from the servicer, loss of or damage to media or images, data or other recorded content. The items listed are not exclusive, but are for illustration only.)
ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE PERIOD OF THE LIMITED WARRANTY.

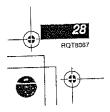
Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied Limited Warranty lasts, so the exclusions may not apply to you.

exclusions may not apply to you.

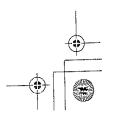
This Limited Warranty gives you specific legal rights and you may also have other rights which vary from state to state. If a problem with this product develops during or after the Limited Warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction,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

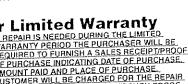
PARTS AND SERVICE, WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY, ARE YOUR RESPONSIBILITY.

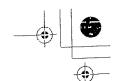












Customer Services Directory

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

http://www.panasonic.com/consumersupport 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 9 am-9 pm; Saturday-Sunday 10 am-7 pm, EST.

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

Accessory Purchases

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

http://www.pasc.panasonic.com

or, send your request by E-mail to:

npcparts@us.panasonic.com

You may also contact us directly at: 1-800-332-3368 (Phone) 1-800-237-9080 (Fax Only) (Monday – Friday 9 am to 8 pm, EST.)

Panasonic Services Company 29421 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

Service in Puerto Rico

Panasonic Puerto Rico, Inc. Ave. 65 de Infantería, Km. 9.5, San Gabriel Industrial Park, Carolina, Puerto Rico 00985 Phone (787)750-4300, Fax (787)768-2910

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.
- 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.
- 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:

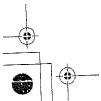
In the U.S.A., refer to "Customer Services Directory" above.

In Canada, contact the Panasonic Canada Inc. Customer Care Centre at 1-800-561-5505, or visit the website (www.panasonic.ca), or an authorized Servicentre closest to you.

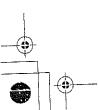






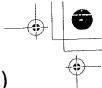








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Limited Warranty (ONLY FOR CANADA)

Panasonic Canada Inc. 5770 Ambler Drive, Mississauga, Ontario L4W 2T3

PANASONIC/TECHNICS PRODUCT—LIMITED WARRANTY

Panasonic Canada Inc. warrants this product to be free from defects in material and workmanship and agrees to remedy any such defect, or at its option, replace the product for a period as stated below from the date of original purchase.

Technics Audio Product Panasonic Audio & DVD Product Accessories including rechargeable batteries One (1) year, parts and labour One (1) year, parts and labour Ninety (90) days

LIMITATIONS AND EXCLUSIONS
This warranty does not apply to products purchased outside Canada or to any product which has been improperly installed, subjected to usage for which the product was not designed, misused or abused, damaged during shipping, or which has been altered or repaired in any way that affects the reliability or detracts from the performance, nor does it which has been altered or repaired in any way that affects the reliability or detracts from the performance, nor does it cover any product which is used commercially. Dry cell batteries are also excluded from coverage under this warranty. This warranty is extended to the original end user purchaser only. A purchase receipt or other proof of date of original purchase is required before warranty service is performed.

THIS EXPRESS, LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

IN NO EVENT WILL PANASONIC CANADA INC. BE LIABLE FOR ANY SPECIAL, INDIRECT OR

CONSEQUENTIAL DAMAGES. In certain instances, some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, or the exclusion of implied warranties, so the above limitations and exclusions may not be applicable.

For product operation and information assistance, please contact your Dealer or our Customer Care Centre at: Telephone #: (905) 624-5505 Fax #: (905) 238-2360 Web: www.panasonic.ca

For product repairs, please contact one of the following: Your Dealer who will inform you of an authorized Servicentre nearest you.
 Our Customer Care Centre at (905) 624-5505 or www.panasonic.ca

•A Panasonic Factory Servicentre listed below: Calgary, Alberta

<u>Pichmond.</u> 12111 Riverside Way Richmond, BC

V6W 1K8 Tel: (604) 278-4211

Fax: (604) 278-5627

T2Ĕ 7H7

6835-8_{th} St. N. E. Calgary, AB Tel: (403) 295-3955 Fax: (403) 274-5493

Panasonic Canada Inc. Panasonic Canada Inc. Panasonic Canada Inc. Panasonic Canada Inc. 5770 Ambler Dr. Mississauga, ON

Mississauga, Ontario

L4W 2T3 Tel: (905) 624-8447 Fax: (905) 238-2418 Lachine, Québec

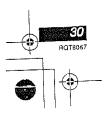
3075, rue Louis A. Amos Lachine, QC H8T 1C4

Tel: (514) 633-8684 Fax: (514) 633-8020

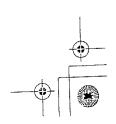
IF YOU SHIP THE PRODUCT TO A SERVICENTRE

Carefully pack and send prepaid, adequately insured and preferably in the original carton. Include details of the defect claimed, and proof of date of original purchase.













P2-35 e.fm Page 31 Thursday, January 27, 2005 4:36 PM





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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. You should use extreme caution or temporarily discontinue use in potentially hazardous situations. You should use extreme caution or temporarily discontinue use in potentially hazardous situations. You should use extreme caution or temporarily desorbly per designed to let you hear outside Even if your hear of that you can't hear what's around you. Sounds, don't turn up the volume so high that you can't hear what's around you. Sounds 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.

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.















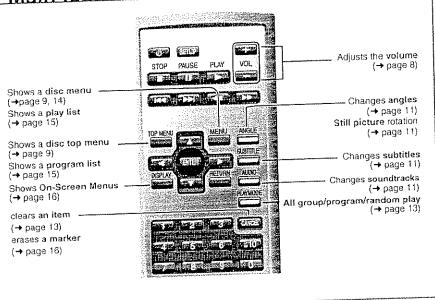


P2-35 e.fm Page 32 Thursday, January 27, 2005 4:36 PM





Main feature index





Panasonic Consumer Electronics Company, Division of Panasonic Corporation of North America

One Panasonic Way Secaucus, New Jersey 07094

http://www.panasonic.com

Panasonic Canada Inc. 5770 Ambler Drive, Mississauga, Ontario L4W 2T3 www.panasonic.ca

Others

Matsushita Electric Industrial Co., Ltd. Corporate Management Division for the Americas Sales Office for North America Tokyo Panasonic Sales Section 32nd Floor, World Trade Center 4-1, Hamamatsucho, 2-Chome, Minato-Ku, Tokyo 105-6132, Japan

(En) Panasonic Puerto Rico, Inc. Ave. 65 de Infanteria, Km. 9.5 San Gabriel Industrial Park, Carolina, Puerto Rico 00985

Panasonic Marketing Europe G.M.B.H. Wiesbaden N. (a Division of Panasonic Marketing G.M.B.H.) Military Sales Department 6200 Wiesbaden-Biebrich, Hagenauerstr. 43 Germany

