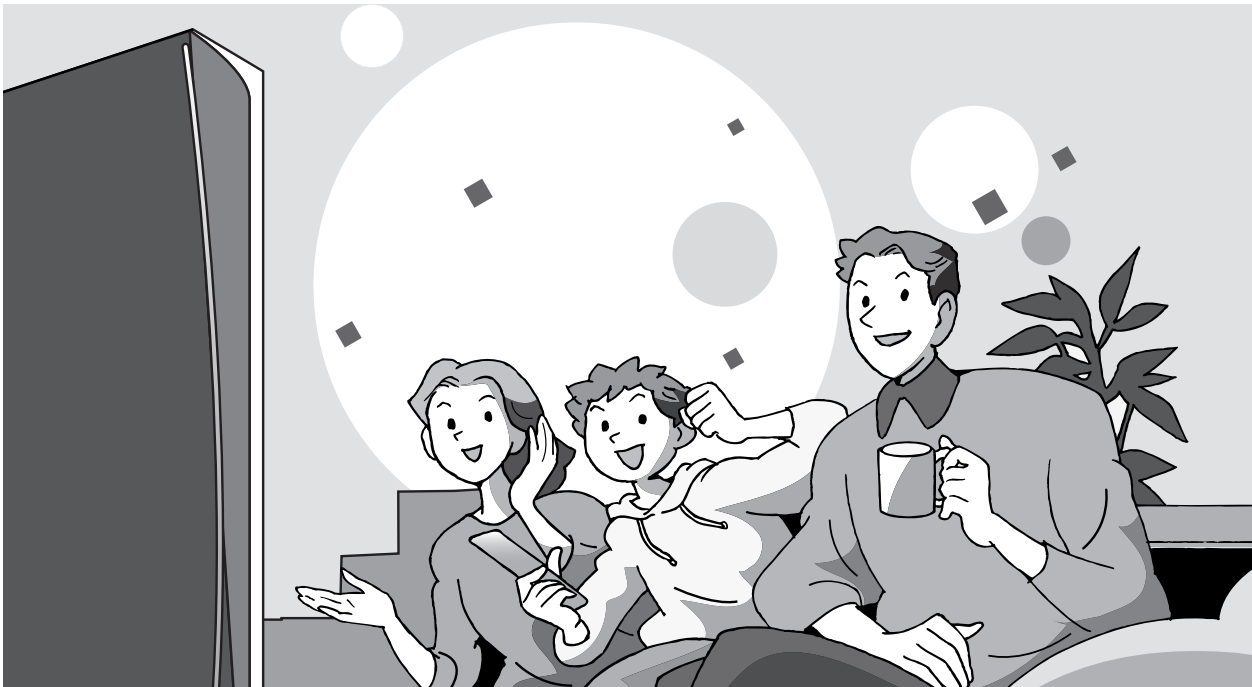# Panasonic®

Operating Instructions
DVD/CD PLAYER

The illustration shows DVD-S27 for U.S.A. and Canada.

Model No. **DVD-S27/DVD-S27U/DVD-S24**

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 keep this manual for future reference.

DVD VIDEO™

COMPACT disc DIGITAL VIDEO

RAM COMPATIBLE P L A Y E R

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

Region	Number
U.S.A.,Canada and units with PX printed on the outer packaging	1
The Middle East and South Africa	2
Asia	3
Australia and N.Z.	4
Russia	5

Example: U.S.A. and Canada

1   ALL   1 2 4

PRINTED WITH **SOY INK**™
This manual was printed with soy based ink.

| P | PC | GCS | GCU | GN | GC | GCA | EE | PX |

Table of contents

Getting started

Operations

Reference

Unless otherwise indicated, illustrations in these operating instructions are DVD-S27 for U.S.A. and Canada.

RQT7240-1P

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.

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.

CAUTION!

- **DO NOT INSTALL OR PLACE THIS UNIT IN A**
  BOOKCASE, BUILT-IN CABINET OR IN ANOTHER
  CONFINED SPACE. ENSURE THE UNIT IS WELL
  VENTILATED. TO PREVENT RISK OF ELECTRIC SHOCK
  OR FIRE HAZARD DUE TO OVERHEATING, ENSURE
  THAT CURTAINS AND ANY OTHER MATERIALS DO NOT
  OBSTRUCT THE VENTILATION VENTS.
- **DO NOT OBSTRUCT THE UNIT'S VENTILATION**
  OPENINGS WITH NEWSPAPERS, TABLECLOTHS,
  CURTAINS, AND SIMILAR ITEMS.
- **DO NOT PLACE SOURCES OF NAKED FLAMES, SUCH**
  AS LIGHTED CANDLES, ON THE UNIT.
- **DISPOSE OF BATTERIES IN AN ENVIRONMENTALLY**
  FRIENDLY MANNER.

CAUTION	LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM. FDA 21 CFR / Class Ⅱ
CAUTION	VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM. IEC60825-1 / Class 3b
ATTENTION	RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE, EXPOSITION DANGEREUSE AU FAISCEAU.
ADVARSEL	SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSÆTTELSE FOR STRÅLING.
VARO!	AVATTAESSA OLET ALTTIINA NÄKYVÄÄ JA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VARNING	SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN.
ADVARSEL	SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES. UNNGÅ EKSPONERING FOR STRÅLEN.
VORSICHT	SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET, NICHT DEM STRAHL AUSSETZEN.
注意	打开时有可见及不可见激光辐射。避免激光束照射。
注意	ここを開くと可視及び不可視レーザー光が出ます。 ビームを見たり、触れたりしないでください。 RQLCA0141

(Inside of product)

The Middle East, South Africa and Asia
THIS UNIT IS INTENDED FOR USE IN TROPICAL CLIMATES.
Australia, N.Z., Russia, and units with PX printed on the outer packaging
THIS UNIT IS INTENDED FOR USE IN MODERATE CLIMATES.

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

Except for U.S.A. and Canada

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

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 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.

THE FOLLOWING APPLIES ONLY IN THE U.S.A. AND CANADA

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

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.

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.

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Accessories

(Only for U.S.A.) To order accessories, refer to "Accessory Purchases" on page 14.
(For other areas) To order accessories, call the dealer from whom you have made your purchase.

Use numbers when asking for replacement parts.

☐ 1	Remote control	(EUR7631020)
☐ 1	AC power supply cord	
	U.S.A. and Canada	(K2CB2CB00006)
	Australia and N.Z.	(K2CJ2DA00008)
	United Arab Emirates, South Africa, Asia, Russia, and units with PX printed on the outer packaging	(RJA0019-2X)
☐ 2	AC power supply cords	
	The Middle East except United Arab Emirates	(RJA0019-2X) (RJA0053-3X)

For Saudi Arabia

| ☐ 1 | Audio/video cable | (JAC3315N) |
| ☐ 2 | Remote control batteries | |

Units with PX printed on the outer packaging

| ☐ 1 | Power plug adaptor | (K2DA42E00001) |

Note
The included AC power supply cord is for use with this unit only. Do not use it with other equipment.

Discs that can be played

Disc	Logo	Indication in these operating instructions	Remarks	
DVD-RAM	DVD RAM RAM4.7	RAM	Recorded using Version 1.1 of the Video Recording Format (a unified video recording standard).	• Recorded with DVD video recorders, DVD video cameras, personal computers, etc. • Remove discs from their cartridges before use.
		JPEG	Recorded using the DCF (Design rule for Camera File system) standard.	• Recorded with Panasonic DVD-Video recorders • To play JPEG files, select "Play as Data Disc" in Other Menu (→ page 9).
DVD-Video	DVD VIDEO	DVD-V	—	
DVD-R	DVD R4.7		Panasonic DVD-R recorded and finalized※ on a Panasonic DVD-Video recorders or DVD-Video cameras are played as DVD-Video on this unit.	
Video CD	COMPACT disc DIGITAL VIDEO	VCD	—	
SVCD	COMPACT disc SUPER VIDEO		Conforming to IEC62107	
CD	COMPACT disc DIGITAL AUDIO / COMPACT disc DIGITAL AUDIO TEXT	CD	—	
CD-R CD-RW	—	WMA MP3 JPEG CD VCD	• This unit can play CD-R/RW (audio recording disc) recorded with the formats on the left. Close the sessions or finalize※ the disc after recording. • **HighMAT discs** WMA, MP3 or JPEG files only. To play without using the HighMAT function, select "Play as Data Disc" in Other Menu (→ page 9).	

※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, DVD＋R, ＋RW, DVD-RW, 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.

■ Audio format of DVDs
You can play discs in stereo with these symbols.

DOLBY DIGITAL | **DIGITAL dts SURROUND**

HighMAT™ and the HighMAT logo are either trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.

Disc handling

■ To clean discs
DVD-V VCD CD
Wipe with a damp cloth and then wipe dry.
RAM DVD-R
● Clean with an optional DVD-RAM/PD disc cleaner (LF-K200DCA1, where available).
● Never use cloths or cleaners for CDs etc.

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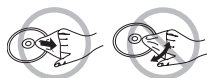
● Do not write on the label side with a ball-point pen or other writing instrument.
● Do not use record cleaning sprays, benzine, thinner, static electricity prevention liquids or any other solvent.
● Do not use scratch-proof protectors or covers.
● Do not use the following discs:
  – Discs with exposed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

Accessories/Discs that can be played/Disc handling

RQT7240

3

STEP 1 The remote control

■ Batteries

R6/LR6, AA, UM-3
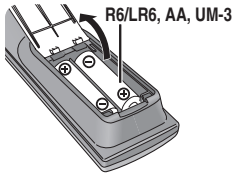
● Insert so the poles (+ and −) match those in the remote control.
● Do not use rechargeable type batteries.

Do not:
● mix old and new batteries.
● use different types at the same time.
● heat or expose to flame.
● take apart or short circuit.
● attempt to recharge alkaline or manganese batteries.
● use batteries if the covering has been peeled off.

Mishandling of batteries can cause electrolyte leakage which can damage items the fluid contacts and may cause a fire.

Remove if the remote control is not going to be used for a long period of time. Store in a cool, dark place.

■ Use

Aim at the remote control sensor, avoiding obstacles, at a maximum range of 7 m (23 feet) directly in front of the unit.
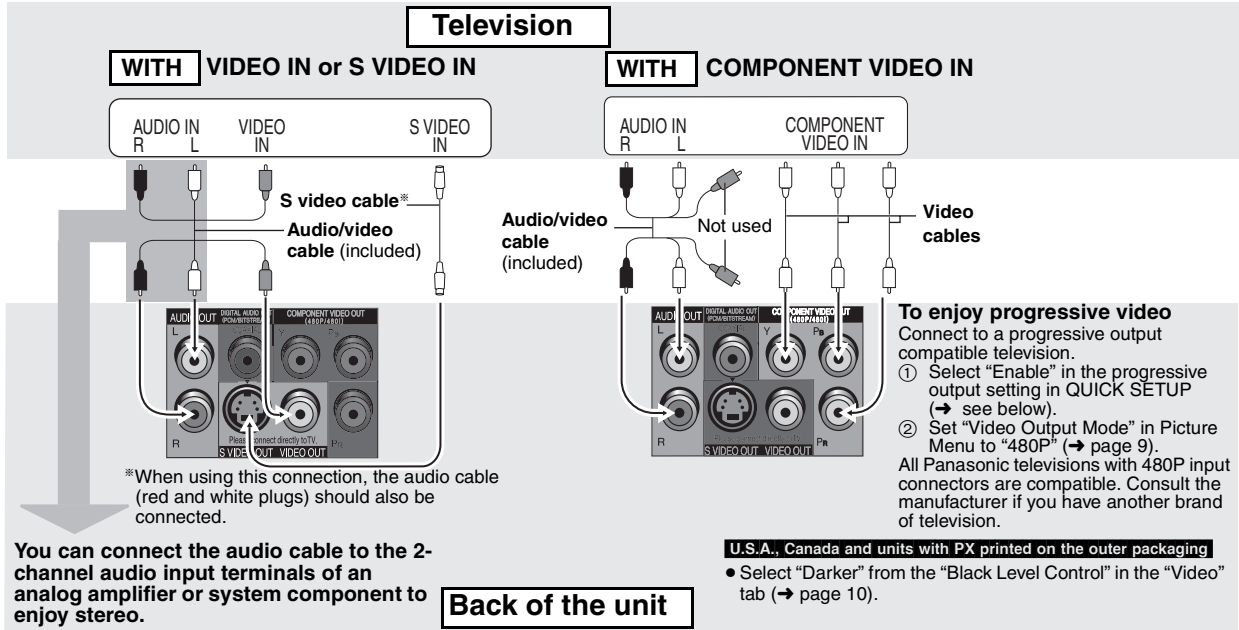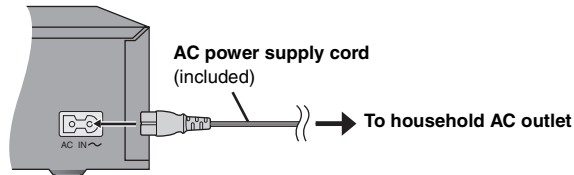
STEP 2 Connection to a television

● Do not place the unit on amplifiers or equipment that may become hot. The heat can damage the unit.
● **Do not connect through the video cassette recorder.** Due to copy guard protection, the picture may not display properly.
● Turn off all equipment before connection and read the appropriate operating instructions.
● Connect the terminals of the same color.

Television

WITH VIDEO IN or S VIDEO IN

AUDIO IN R L · VIDEO IN · S VIDEO IN

S video cable※
Audio/video cable (included)

AUDIO OUT L · DIGITAL AUDIO OUT (PCM/BITSTREAM) · COMPONENT VIDEO OUT (480P/480I)
R · Please connect directly to TV. · S VIDEO OUT · VIDEO OUT

※When using this connection, the audio cable (red and white plugs) should also be connected.

You can connect the audio cable to the 2-channel audio input terminals of an analog amplifier or system component to enjoy stereo.

Back of the unit

WITH COMPONENT VIDEO IN

AUDIO IN R L · COMPONENT VIDEO IN

Audio/video cable (included) · Not used · Video cables

AUDIO OUT L · DIGITAL AUDIO OUT (PCM/BITSTREAM) · COMPONENT VIDEO OUT (480P/480I) Y PB
R · S VIDEO OUT · VIDEO OUT · PR

To enjoy progressive video
Connect to a progressive output compatible television.
① Select "Enable" in the progressive output setting in QUICK SETUP (➔ see below).
② Set "Video Output Mode" in Picture Menu to "480P" (➔ page 9).
All Panasonic televisions with 480P input connectors are compatible. Consult the manufacturer if you have another brand of television.

U.S.A., Canada and units with PX printed on the outer packaging
● Select "Darker" from the "Black Level Control" in the "Video" tab (➔ page 10).

■ Connect the AC power supply cord last

AC power supply cord (included)

AC IN ~ → To household AC outlet

Conserving power
This unit consumes a small amount of power, even when it is turned off (1 W). To save power when the unit is not to be used for a long time, unplug it from the household AC outlet.
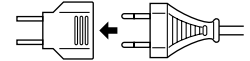
For Saudi Arabia

The Middle East
● Use the AC power supply cord that matches the socket for the area you live in.
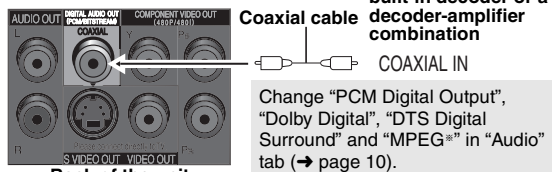
For units with PX printed on the outer packaging
If the power plug does not fit your AC outlet, use the power plug adaptor (included).
If it still doesn't fit, contact an electrical parts distributor for assistance.

■ Enjoying multi-channel surround sound

AUDIO OUT L · DIGITAL AUDIO OUT (PCM/BITSTREAM) COAXIAL · COMPONENT VIDEO OUT (480P/480I) Y
R · S VIDEO OUT · VIDEO OUT
Back of the unit

Coaxial cable · **Amplifier with a built-in decoder or a decoder-amplifier combination**
COAXIAL IN

Change "PCM Digital Output", "Dolby Digital", "DTS Digital Surround" and "MPEG※" in "Audio" tab (➔ page 10).
※MPEG: The Middle East, South Africa, Russia, Australia and N.Z.

STEP 3 QUICK SETUP
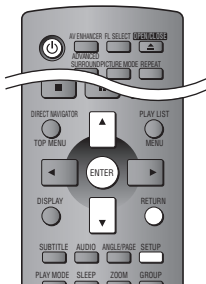
Turn on the television and select the appropriate video input on the television.

1	2	3	4	5
⏻	SETUP	▲ ◄ ENTER ► ▼ RETURN	ENTER	SETUP
Power ON.	Shows QUICK SETUP screen.	Follow the message and make the settings.	Press to finish QUICK SETUP.	Press to exit.
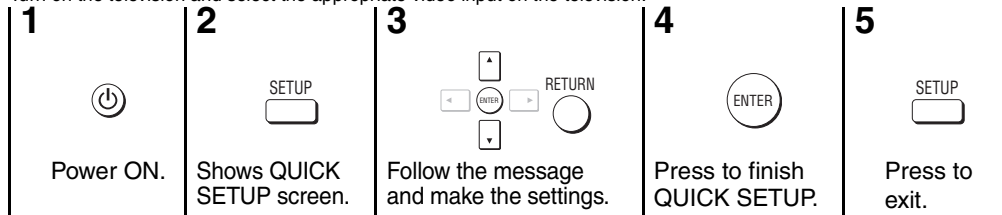
To change these settings later
Select "QUICK SETUP" in "Others" tab (➔ page 10).

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Basic play

❶ Power ON.

POWER ⏻/∣

❷ Open the disc tray.

⏏OPEN/CLOSE

Stop **Pause**

■ ‖

AV ENHANCER

Remote control signal sensor

❸ Load the disc.

● Load double-sided discs so the label for the side you want to play is facing up.

❹ Start play.

▶

**Press to skip.
Press and hold to
–search
–slow-motion.**

|◀◀/◀◀   ▶▶/▶▶|
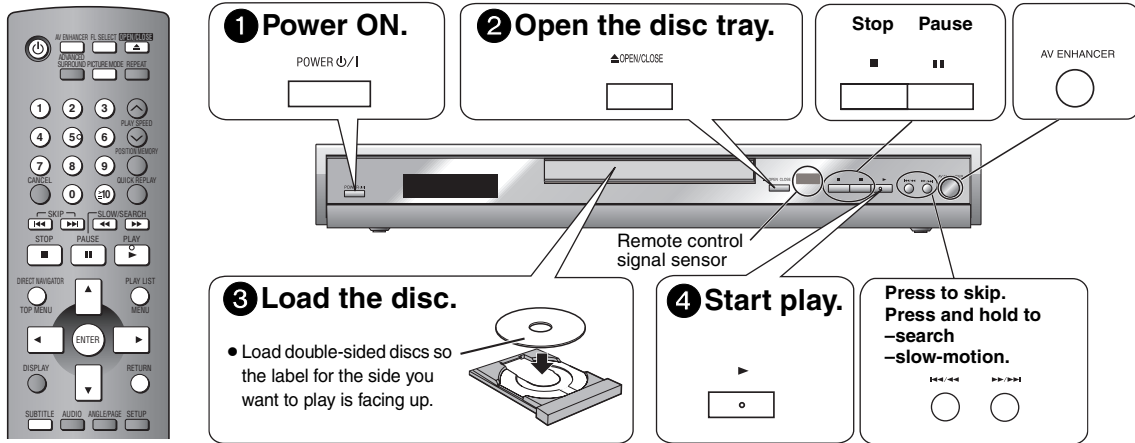
Stop	STOP ■	The position is memorized when "▷" flashes on the display. ● Press [▶] (PLAY) to resume. **DVD-V To review the previous chapters** (→ page 8, Position memory). ● Press [■] to clear the position.
Pause	PAUSE ‖	● Press [▶] (PLAY) to restart play.
Skip	SKIP |◀◀ ▶▶|	(Group skip WMA MP3 JPEG) ▲ ◀ ENTER ▶ ▼
Search (during play) **Slow-motion** (during pause)	SLOW/SEARCH ◀◀ ▶▶	● Up to 5 steps ● Press [▶] (PLAY) to start play. ● VCD Slow motion, forward direction only
Frame-by-frame (during pause)	▲ ◀ ENTER ▶ ▼	● VCD forward direction only
On-screen item select	▲ Select ◀ ENTER ▶ ▼ Register	

If you are experiencing problems, refer to troubleshooting guide (→ page 12, 13).

Note
Discs continue to rotate while menus are displayed. Press [■] when you finish to preserve the unit's motor and your television screen.

Enter number	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⓪ ≧10	RAM DVD-V VCD CD e.g. To select 12: [≧10] → [1] → [2] VCD with playback control While stopped, press the numbered buttons. WMA MP3 JPEG e.g. To select 123: [1] → [2] → [3] → [ENTER]
Disc menu	TOP MENU MENU RETURN	DVD-V Shows a disc top menu DVD-V Shows a disc menu VCD Shows a disc menu
Return to previous screen	RETURN	
Main unit display	FL SELECT	Number display ↑ ↓ Time display
Information screen	SUBTITLE	WMA MP3 JPEG Turns the information screen on/off

■ **Standby/on switch (⏻/I)**
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.

Units sold outside the U.S.A and Canada

Standby/on 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.

Enjoying higher quality audio and video

AV ENHANCER AV ENHANCER (Main unit)	**AV Enhancer**

By just pressing this one button the disc type is automatically determined and the best audio and video settings which are indicated below are configured.

Press [AV ENHANCER] to select "On".

☑ Menu
AV Enhancer   On

Audio settings: Advanced Surround (→ page 6)
Dialogue Enhancer (→ page 9)
Video settings: Picture Mode (→ right)
● When AV Enhancer is on, individual settings can no longer be changed.

PICTURE MODE	**Picture Mode**

RAM DVD-V VCD JPEG
Press [PICTURE MODE] to change the picture quality for movie viewing.

☑ Menu
Picture Mode   Normal

Normal
Cinema1: Mellows images and enhances detail in dark scenes.
Cinema2: Sharpens images and enhances detail in dark scenes.
Animation
Dynamic

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Enjoying higher quality audio and video
(→ Refer to the back cover for remote control button positions)

ADVANCED SURROUND | Advanced Surround

`RAM` `DVD-V` `VCD` (2 or more channels)

Press [ADVANCED SURROUND] to select "SP1" ,"SP2","HP1"or "HP2".

> ☑ **Menu**
> Advanced Surround   SP1

SP (Speaker) 1 Natural	**SP 2** Enhanced
HP (Headphone) 1 Natural	**HP 2** Enhanced **Off**

- When using discs recorded with surround sound, sound seems to come from speakers on either side of you.
- When using headphones from the connected equipment, select "HP 1" or "HP 2".
- Optimum seating position is 3 to 4 times the distance between the front left and right speakers or the width of the television if using the television's speakers.
- Do not use in combination with surround effects on other equipment.

Changing the play sequences
(→ Refer to the back cover for remote control button positions)
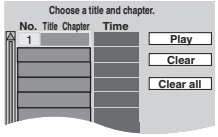
PLAY MODE | Program/Random play

`DVD-V` `VCD` `CD` `WMA` `MP3` `JPEG`

While stopped, press [PLAY MODE].
Each time you press the button:
Program ─────────────→ Random
↑──── Off (Normal play) ←────┘

- Disable HighMAT disc play to use random and program play. Select "Play as Data Disc" in Other Menu (→ page 9).

■ **Program play** (up to 32 items)

e.g. `DVD-V`

1 **Press the numbered buttons to select the items (`WMA` `MP3` `JPEG` then press [ENTER]).**
   Repeat this step to program other items.
2 **Press [▶] (PLAY).**

> Choose a title and chapter.
> | No. | Title | Chapter | Time | | |
> |---|---|---|---|---|---|
> | 1 | | | | **Play** | |
> | | | | | **Clear** | |
> | | | | | **Clear all** | |

**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]).
- Press [ANGLE/PAGE] to skip page by page.

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 tray is opened.

■ **Random play**

1 (`DVD-V` `WMA` `MP3` `JPEG`)
   Press the numbered buttons to select a group (`WMA` `MP3` `JPEG` then press [ENTER]) or a title.
2 **Press [▶] (PLAY).**

e.g. `DVD-V`

> Random Playback
> Choose a title.
> Title 1
> ▲▼ 0 – 9 to select   PLAY to start
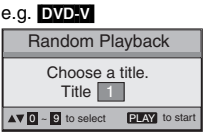
To exit the program or random mode
Press [PLAY MODE] several times while stopped.

REPEAT | Repeat play

(Only when the elapsed play time can be displayed
`JPEG`: Works with all JPEG content.)

Press [REPEAT] several times to select an item to be repeated.

> ☑ **Menu**
> Repeat   Off

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Using navigation menus
(→ Refer to the back cover for remote control button positions)

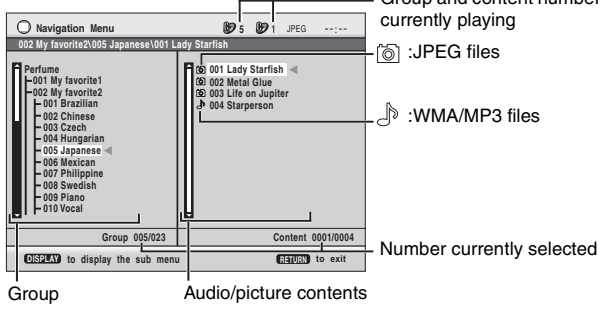### MENU | Playing data discs
`WMA` `MP3` `JPEG` `CD` (CD-text only)

`WMA` `MP3` `JPEG`
You can play JPEG files on DVD-RAM or play HighMAT discs without using the HighMAT function (→ page 9, "Play as Data Disc" in Other Menu).

■ **Using playback menus** (except JPEG files on DVD-RAM)
While the menu is displayed
Press [▲ ▼] to select "All", "Audio", or "Picture" and press [ENTER].
- To display/exit the screen
  Press [TOP MENU].

■ **Using navigation menus**
1 **Press [MENU].**
2 **Press [▲ ▼ ◀ ▶] to select the group or audio/picture content and press [ENTER].**

Group and content number currently playing

> ○ Navigation Menu   📷 5   🎵 1   JPEG   --:--
> 002 My favorite2\005 Japanese\001 Lady Starfish
> Perfume   📷 001 Lady Starfish ◀
> ─001 My favorite1   📷 002 Metal Glue
> ─002 My favorite2   📷 003 Life on Jupiter
> ──001 Brazilian   🎵 004 Starperson
> ──002 Chinese
> ──003 Czech
> ──004 Hungarian
> ──005 Japanese ◀
> ──006 Mexican
> ──007 Philippine
> ──008 Swedish
> ──009 Piano
> ──010 Vocal
> Group 005/023   Content 0001/0004
> DISPLAY to display the sub menu   RETURN to exit

📷 :JPEG files

🎵 :WMA/MP3 files

Number currently selected

Group | Audio/picture contents

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

Using the submenu `WMA` `MP3` `JPEG`

1 **While the menu is displayed, press [DISPLAY].**

✓Multi	Groups and content
List	Content only
Tree	Groups only
Thumbnail	Thumbnail images `JPEG`
Next group	To the next group `WMA` `MP3`
Previous group	To the previous group `WMA` `MP3`
All	WMA/MP3 and JPEG files
Audio	WMA/MP3 files only
Picture	JPEG files only
Help display	To switch between guide messages and the elapsed play time indicator
Find	To search by content or group title (→ see below)

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

■ **Searching by a content or group title**
`WMA` `MP3` `JPEG`

Place the cursor on the group title to search a group, or place the cursor on the content title to search content.

1 **Select "Find"**
   (→ see above).

> ✳ A   **Find**

2 **Press [▲▼] to select a character and press [ENTER].**
   - Repeat to enter another character.
   - Lower case is also searched.
   - Press [◀◀ ▶▶] to skip between A, E, I, O and U.
   - Press [◀] to erase a character.
   - Erase the asterisk (✳) to search for the titles starting with that character.
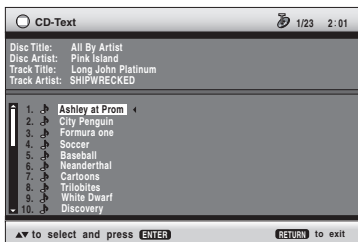3 **Press [▶] to select "Find" and press [ENTER].**
   The search result screen appears.
4 **Press [▲ ▼] to select the content or group and press [ENTER].**

To use the contents screen to find a track
CD (CD text only)

While the menu is displayed

Press [▲ ▼] to move through the tracks and press [ENTER].

● Press [ANGLE/PAGE] to skip page by page.

○ CD-Text	𝄞 1/23 2:01

Disc Title: All By Artist
Disc Artist: Pink Island
Track Title: Long John Platinum
Track Artist: SHIPWRECKED

1. ♪ Ashley at Prom ◄
2. ♪ City Penguin
3. ♪ Formura one
4. ♪ Soccer
5. ♪ Baseball
6. ♪ Neanderthal
7. ♪ Cartoons
8. ♪ Trilobites
9. ♪ White Dwarf
10. ♪ Discovery

▲▼ to select and press ENTER   RETURN to exit

[TOP MENU]

Playing HighMAT discs WMA MP3 JPEG

While the menu is displayed
Select the item following the on-screen instructions.

New Playlist Item Long Name Display Te   PAGE 1/3   [HighMAT]

Menu1   Play list1   Menu2
Play list2   Menu3   Play list3
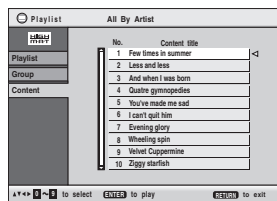◄ Prev   ▲ Return   Next ►

Menu: Takes you to the next menu which shows play lists or another menu

Play list: play starts

● **To change the menu background**
Press [DISPLAY].
The background changes to the one recorded on the disc.
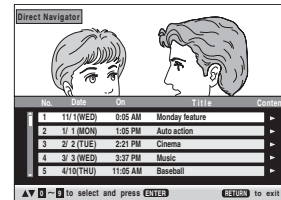● **To display/exit the screen**
Press [TOP MENU].

■ Selecting from the list
1 **Press [MENU].**
2 **Press [◄] then [▲ ▼] to switch among Playlist, Group and Content lists.**
3 **Press [►] then [▲ ▼] to select an item and press [ENTER].**
   ● Press [ANGLE/PAGE] to skip page by page.
● **To exit the screen**
Press [MENU].

○ Playlist	All By Artist

[HighMAT]
Playlist
Group
Content

No.   Content title
1   Few times in summer ◄
2   Less and less
3   And when I was born
4   Quatre gymnopedies
5   You've made me sad
6   I can't quit him
7   Evening glory
8   Wheeling spin
9   Velvet Cuppermine
10   Ziggy starfish

▲▼◄► 0~9 to select   ENTER to play   RETURN to exit

[DIRECT NAVIGATOR]

Playing the programs RAM

1 **Press [DIRECT NAVIGATOR].**
   ● Titles appear only if you have entered them.
   ● You cannot change program and disc titles.
2 **Press [▲ ▼] or the numbered buttons to select the program.**
   ● Press [ANGLE/PAGE] to skip page by page.
   ● **To select a 2-digit number**
   e.g. 23: [≧10] ➜ [2] ➜ [3]
   ● Press [►] to show the contents of the program.

Direct Navigator

No.   Date   On   Title   Contents
1   11/1(WED)   0:05 AM   Monday feature   ►
2   1/1(MON)   1:05 PM   Auto action   ►
3   2/2(TUE)   2:21 PM   Cinema   ►
4   3/3(WED)   3:37 PM   Music   ►
5   4/10(THU)   11:05 AM   Baseball   ►

▲▼ 0~9 to select and press ENTER   RETURN to exit

[PLAY LIST]

Playing a play list RAM

(Only when the disc contains a play list)
1 **Press [PLAY LIST].**
2 **Press [▲ ▼] or the numbered buttons to select the play list.**
   ● Press [ANGLE/PAGE] to skip page by page.
   ● **To select a 2-digit number**
   e.g. 23: [≧10] ➜ [2] ➜ [3]
3 **Press [ENTER].**

○ Playlist	

No.   Date   Length   Title
1   11/1   0:00:01   City Penguin
2   1/1   0:01:20   Ashley at Prom
3   2/2   1:10:04   Formula one
4   3/3   0:10:20   Soccer
5   4/10   0:00:01   Baseball
6   4/11   0:00:01   City Penguin
7   4/15   0:01:10   Ashley at Prom
8   4/17   0:13:22   Formula one
9   4/20   0:05:30   Soccer
10   4/22   0:07:29   Baseball

▲▼◄► 0~9 to select and press ENTER   RETURN to exit

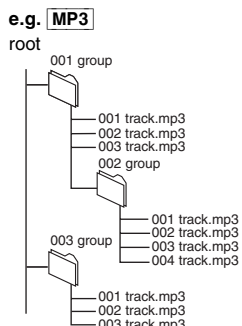**Using navigation menus**

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.

Naming folders and files

At the time of recording, prefix folder and file names with 3-digit numbers in the order you want to play them (this may not work at times).
Files must have the extension:
".WMA" or ".wma"
".MP3" or ".mp3"
".JPG", ".jpg", ".JPEG" or ".jpeg"

e.g. MP3
root
001 group
├── 001 track.mp3
├── 002 track.mp3
├── 003 track.mp3
002 group
├── 001 track.mp3
├── 002 track.mp3
├── 003 track.mp3
├── 004 track.mp3
003 group
├── 001 track.mp3
├── 002 track.mp3
├── 003 track.mp3

WMA
● You cannot play WMA files that are copy protected.

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
● To view JPEG files on this unit:
– Take them on a digital camera that meets the DCF Standard (Design rule for Camera File system) Version 1.0. Some digital cameras have functions that are not supported by the DCF Standard Version 1.0 like automatic picture rotation which may render a picture un-viewable.
– Do not alter the files in any way or save them under a different name.
● This unit cannot display moving pictures, MOTION JPEG and other such formats, still pictures other than JPEG (e.g. TIFF) or play associated sound.

RQT7240

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Convenient functions (→ Refer to the back cover for remote control button positions)

⌃⌄ PLAY SPEED — Changing play speed

RAM **DVD-V**

Press [∧, PLAY SPEED] or [∨, PLAY SPEED].
–from ×0.6 to ×1.4 (in 0.1 units)
● After you change the speed
  –Digital output switches to PCM-2ch.
  –Sampling frequency of 96 kHz is converted to 48 kHz.
●**To return to normal play**
  Press [▶] (PLAY).

> DVD-VR
> ×0.9 ▶

ZOOM — Zoom

RAM **DVD-V** **VCD**
This feature expands the letterbox picture to fit the screen.

Press [ZOOM] several times to select the preset aspect ratio or "Auto". (Just Fit Zoom)

Fine adjustments (Manual Zoom)
Press [◄ ►].
–from ×1.00 to ×1.60 (in 0.01 units)
–from ×1.60 to ×2.00 (in 0.02 units)

> ☑ Menu
> Just Fit Zoom   ×1.00▶

POSITION MEMORY — Position memory

(Only when the elapsed play time can be displayed
JPEG: Works with all JPEG content.)
This position is memorized even after turning off the unit or changing the disc.

Press [POSITION MEMORY].

> Position memorized ─○◎●●●

● Up to 5 discs.
● When the sixth disc is memorized, the earliest position is replaced.

When the unit is turned on or the disc is inserted, "▷" flashes on the display.

Press [▶] (PLAY) to start play from that position.

To review the previous chapters **DVD-V**
Press [▶] (PLAY) while the following message is displayed.

> Press PLAY to preview chapters   **or**   Press PLAY to Chapter Review

Do not press [▶] (PLAY) if you want to cancel review.

SUBTITLE — Subtitle

DVD-V (with multiple subtitles) **VCD** (SVCD only)
RAM (On/Off only)

Press [SUBTITLE] several times to select the subtitle language.

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

> ☑ Menu
> Subtitle   ◄ Off ▶

● **RAM** (Only discs that contain subtitle on/off information)
Subtitle on/off information cannot be recorded using Panasonic DVD Recorders. (Subtitle on/off information is also not recordable on Panasonic DVD-R finalized with a Panasonic DVD Recorder.)

AUDIO — Audio

DVD-V (with multiple soundtracks) **RAM** **VCD**

Press [AUDIO] several times to select the soundtrack.

RAM **VCD**
You can use this button to select "L", "R" or "L R".
DVD-V (Karaoke discs)
Press [◄ ►] to select "On" or "Off" of vocals. Read the disc's instructions for details.

> ☑ Menu
> Audio   1

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

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

GROUP — Starting play from a selected group

WMA **MP3** **JPEG**
A folder on WMA/MP3 and JPEG discs is treated as a "Group".

1 **Press [GROUP].**
2 **Press [▲ ▼] to select the item and press [ENTER].**

> ☑ Menu
> Group Search   ↕1

ANGLE/PAGE — Angle select and Still picture rotation

Press [ANGLE/PAGE] several times to select the angle or rotate the still picture.
DVD-V (with multiple angles)–Angle select
JPEG –Still picture rotation

SLEEP — Sleep timer

Press [SLEEP] to select the time to turn off (60 min, 90 min, 120 min) or "Auto".

Auto:
–Turns the unit off 5 minutes after play finishes.
–Also works with DVDs that show a menu after play finishes.
–Does not work if you stop play or show a disc menu. It is activated again when you restart play.
To confirm the remaining time
Press [SLEEP] again.

> ☑ Menu
> Sleep   ↕ Auto

QUICK REPLAY — Quick replay

Except **JPEG**
(Only when the elapsed play time can be displayed)

Press [QUICK REPLAY] to skip back a few seconds.

> ↺...

Using On-Screen Menus (→ Refer to the back cover for remote control button positions)

1
DISPLAY
Press once.
(**DVD-S27/DVD-S27U** When pressed twice, the elapsed play time indicator appears. → page 9)

2
Select
Go to the next menu
Return to the previous menu
Register
Select the menu.

3
Select
Register
① ② ③
④ ⑤ ⑥
⑦ ⑧ ⑨
⓪ ≧10
Make the settings.

4
RETURN
Press to exit.

Items shown differ depending on the type of software.

Main menus

Program Group Title Chapter Track Playlist Content	To start from a specific item
Time	To skip incrementally or decrementally (Time Slip for play only) 1. Press [ENTER] twice to show Time Slip indicator. 2. Press [▲ ▼] to select the time and press [ENTER]. ● Press and hold [▲ ▼] to change faster. **To start from a specific time (Time Search)** **To change remaining/elapsed time display**

Audio	(➔ page 8)
	To display the current bitrate or sampling frequency
Thumbnail	To show thumbnail images
Subtitle	(➔ page 8)
Marker (VR)	To recall a marker recorded on DVD-Video recorders
Angle	(➔ page 8)
Rotate Picture	
Slideshow	To turn on/off slideshow To change the slideshow timing (0–30 sec)

Other settings

Play Speed	(➔ page 8)
AV Enhancer	(➔ page 5)

■ Play Menu
(Only when the elapsed play time can be displayed
`JPEG` : Works with all JPEG content.)

Repeat	(➔ page 6)
Except `JPEG` `RAM` (still picture part) **A-B Repeat**	**To repeat a specified section** Press [ENTER] at the starting and ending points. Press [ENTER] again to cancel.
Marker	**To mark up to 5 positions to play again** [ENTER] (The unit is now ready to accept markers.) To mark a position: [ENTER] (at the desired point) To mark another position: [◄ ►] ➔ [ENTER] To recall a marker: [◄ ►] ➔ [ENTER] To erase a marker: [◄ ►] ➔ [CANCEL] ● This feature doesn't work during program and random play.

■ Picture Menu

Picture Mode	(➔ page 5)
Video Output Mode	**480I** (Interlace) ⟷ **480P** (Progressive)
Transfer Mode	If you have chosen "480P" (➔ above), select the method of conversion for progressive output to suit the type of material. **Auto 1** (normal): For viewing film material **Auto 2**: For viewing film material (the same as Auto 1, but able to convert 30-frame-per-second progressive video) **Video**: For video material

■ Audio Menu

Advanced Surround	(➔ page 6)
Dialogue Enhancer	**To make the dialogue in movies easier to hear** `DVD-V` (Dolby Digital, DTS, MPEG*, 3-channel or over, with the dialogue recorded in the center channel) **On** ⟷ **Off**
Attenuator	Switch on if sound is distorted. (For AUDIO OUT connection) **On** ⟷ **Off**

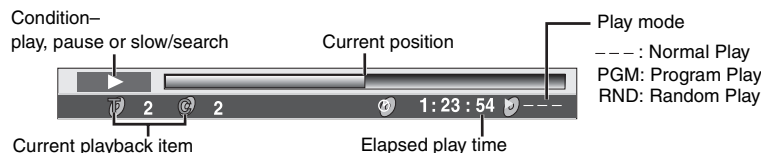*MPEG: `The Middle East, South Africa, Russia, Australia and N.Z.`

■ Display Menu

Information	**On** ⟷ **Off** (`JPEG` : **Off, Date, Details**)
Subtitle Position	**0 to −60 (in 2 units)**
Subtitle Brightness	**Auto, 0 to −7**
4:3 Aspect	**To select how to show images made for 4:3 aspect screens on a 16:9 aspect television.** **Normal**: Laterally stretches images. **Auto**: Expands 4:3 letterbox images to fill more of the screen. Other images appear in full in the center of the screen. **Shrink**: Images appear in the center of the screen. **Zoom**: Expands all images to fill the screen. If your television has a similar feature, use it instead for a better effect.
Just Fit Zoom	(➔ page 8)
Manual Zoom	(➔ page 8)
GUI See-through	**On** ⟷ **Off**
GUI Brightness	**−3 to +3**

■ Other Menu

Sleep	(➔ page 8)
Play as DVD-VR Play as HighMAT or Play as Data Disc	While stopped ● Select "Play as Data Disc" to play JPEG files on DVD-RAM or to play a HighMAT disc without using the HighMAT function.

`DVD-S27/DVD-S27U`

■ Elapsed play time indicator

Condition–
play, pause or slow/search   Current position   Play mode

– – – : Normal Play
PGM: Program Play
RND: Random Play

▶   2   2   1 : 23 : 54   – – –

Current playback item   Elapsed play time

Changing the player settings (➔ Refer to the back cover for remote control button positions)

- The settings remain intact even if you switch the unit to standby.
- Underlined items are the factory preset.
- See page 11 for operation.

The QUICK SETUP enables successive settings of the items in the shaded area.

■ "Disc" tab

Audio Choose the audio language.	● English ● (Language options)※1 ● Original※2 ● Other✶✶✶✶※3
Subtitle Choose the subtitle language.	● Automatic※4 ● English ● (Language options)※1 ● Other✶✶✶✶※3
Menus Choose the language for disc menus.	● English ● (Language options)※1 ● Other✶✶✶✶※3 ● Changing the menu language from QUICK SETUP also changes this setting.
Ratings Set a ratings level to limit DVD-Video play. ● Follow the on-screen instructions.	Setting ratings (When level 8 is selected) ● 8 No Limit ● 1 to 7 ● 0 Lock All: To prevent play of discs without ratings levels. Changing ratings (When level 0–7 is selected) ● Unlock Player ● Change Password ● Change Level ● Temporary Unlock

■ "Video" tab

TV Aspect Choose the setting to suit your television and preference.	● 4:3 Pan&Scan: Regular aspect television (4:3) The sides of the widescreen picture are cut off so it fills the screen (unless prohibited by the disc). ● 4:3 Letterbox: Regular aspect television (4:3) Widescreen picture is shown in the letterbox style.
	● 16:9: Widescreen television (16:9)
Progressive Out (Component)	● Disable: Interlace output ● Enable※5 or ● Enable (NTSC Disc Only)※6※7: Progressive output
TV Type Select to suit the type of television.	● Standard(Direct View TV) ● CRT Projector ● LCD TV/Projector ● Projection TV ● Plasma TV
Time Delay When connected with an AV amplifier and Plasma display, adjust if you notice the audio is out of sync with the video.	● 0ms ● 20ms ● 40ms ● 60ms ● 80ms ● 100ms
Still Mode Specify the type of picture shown when paused.	● Automatic ● Field: The picture is not blurred, but picture quality is lower. ● Frame: Overall quality is high, but the picture may appear blurred.
Black Level Control※5 Change the black level of the picture if you connected a television through the COMPONENT VIDEO OUT terminals.	● Lighter: When connected through VIDEO OUT or S VIDEO OUT. ● Darker: When connected through COMPONENT VIDEO OUT.
NTSC Disc Output※6※7 Choose PAL 60 or NTSC output when playing NTSC discs.	● PAL60: When connected to a PAL television ● NTSC: When connected to an NTSC television (Asia: "NTSC" is the factory preset.)

■ "Audio" tab

PCM Digital Output Check the digital input limitations of the equipment you connect using COAXIAL terminal and select the maximum sampling frequency of PCM digital output.	● **Up to 48 kHz:** When connected to equipment compatible with 44.1 or 48 kHz ● **Up to 96 kHz:** When connected to equipment compatible with 88.2 or 96 kHz – Signals that exceed the set maximum frequency and signals from copy-protected discs are converted to 48 or 44.1 kHz. – Some equipment cannot handle sampling frequencies of 88.2 kHz, even if they can handle 96 kHz. Read your equipment's operating instructions for details.
Dolby Digital	● Bitstream ● PCM
DTS Digital Surround	● PCM ● Bitstream
MPEG※7	● PCM ● Bitstream

Select "**Bitstream**" when the equipment can decode the bitstream (digital form of multi-channel data). Otherwise, select "**PCM**".
● If the bitstream is output to the equipment without a decoder, high levels of noise can be output and may damage your speakers and hearing.

Dynamic Range Compression	● Off ● On: Adjusts for clarity even when the volume is low through compressing the range of the lowest sound level and the highest sound level. Convenient for late night viewing. (Only works with Dolby Digital)
Audio during Search	● On ● Off

■ "Display" tab

Menu Language	※5 ● English ●Français ●Español ※6 ● English ● 中文 ※7 ● English ●Français ●Deutsch ●Italiano ●Español ●Português● Svenska ●Nederlands
On-Screen Messages	● On ● Off

■ "Others" tab

FL Dimmer Changes the brightness of the unit's display.	● Bright ● Dim ● Auto: The display is dimmed during play, but brightens when you perform some operations.
Auto Power Off	● On: The unit switches to standby mode after approximately 30 minutes in the stop mode, irrespective of the SLEEP setting. ● Off
HighMAT	● Enable ● Disable (Unable to use the HighMAT function.)
QUICK SETUP	● Yes ● No
Re-initialize Setting This returns all values in the Setup menus to the default settings.	● Yes: The password screen is shown if "Ratings" (➔ above) are set. Please enter the same password. After "INI" on the display disappears, turn the unit off and on again. ● No

※1 Language options
[U.S.A., Canada and units with PX printed on the outer packaging]:
French and Spanish
[Asia]: Chinese
[The Middle East, South Africa, Russia, Australia and N.Z.]:
French, German, Italian, Spanish, Portuguese, Swedish and Dutch
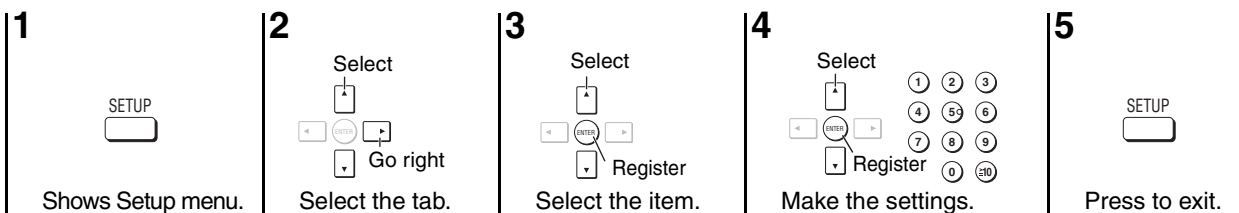※2 The original language designed on the disc is selected.

※3 Input a code number referring to the table on page 11.
※4 If the language selected for "Audio" is not available, subtitle appear in that language (If available on the disc).
※5 [U.S.A., Canada and units with PX printed on the outer packaging]
※6 [Asia]
※7 [The Middle East, South Africa, Russia, Australia and N.Z.]

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1	2	3	4	5
SETUP	Select Go right	Select Register	Select ①②③ ④⑤⑥ ⑦⑧⑨ ⓪≧⑩ Register	SETUP
Shows Setup menu.	Select the tab.	Select the item.	Make the settings.	Press to exit.

Language code list

Abkhazian:	6566	Chinese:	9072	Hausa:	7265	Lithuanian:	7684	Romanian:	8279	Telugu:	8469
Afar:	6565	Corsican:	6779	Hebrew:	7387	Macedonian:	7775	Russian:	8285	Thai:	8472
Afrikaans:	6570	Croatian:	7282	Hindi:	7273	Malagasy:	7771	Samoan:	8377	Tibetan:	6679
Albanian:	8381	Czech:	6783	Hungarian:	7285	Malay:	7783	Sanskrit:	8365	Tigrinya:	8473
Ameharic:	6577	Danish:	6865	Icelandic:	7383	Malayalam:	7776	Scots Gaelic:	7168	Tonga:	8479
Arabic:	6582	Dutch:	7876	Indonesian:	7378	Maltese:	7784	Serbian:	8382	Turkish:	8482
Armenian:	7289	English:	6978	Interlingua:	7365	Maori:	7773	Serbo-Croatian:	8372	Turkmen:	8475
Assamese:	6583	Esperanto:	6979	Irish:	7165	Marathi:	7782	Shona:	8378	Twi:	8487
Aymara:	6588	Estonian:	6984	Italian:	7384	Moldavian:	7779	Sindhi:	8368	Ukrainian:	8575
Azerbaijani:	6590	Faroese:	7079	Japanese:	7465	Mongolian:	7778	Singhalese:	8373	Urdu:	8582
Bashkir:	6665	Fiji:	7074	Javanese:	7487	Nauru:	7865	Slovak:	8375	Uzbek:	8590
Basque:	6985	Finnish:	7073	Kannada:	7578	Nepali:	7869	Slovenian:	8376	Vietnamese:	8673
Bengali; Bangla:	6678	French:	7082	Kashmiri:	7583	Norwegian:	7879	Somali:	8379	Volapük:	8679
Bhutani:	6890	Frisian:	7089	Kazakh:	7575	Oriya:	7982	Spanish:	6983	Welsh:	6789
Bihari:	6672	Galician:	7176	Kirghiz:	7589	Pashto, Pushto:	8083	Sundanese:	8385	Wolof:	8779
Breton:	6682	Georgian:	7565	Korean:	7579	Persian:	7065	Swahili:	8387	Xhosa:	8872
Bulgarian:	6671	German:	6869	Kurdish:	7585	Polish:	8076	Swedish:	8386	Yiddish:	7473
Burmese:	7789	Greek:	6976	Laotian:	7679	Portuguese:	8084	Tagalog:	8476	Yoruba:	8979
Byelorussian:	6669	Greenlandic:	7576	Latin:	7665	Punjabi:	8065	Tajik:	8471	Zulu:	9085
Cambodian:	7577	Guarani:	7178	Latvian, Lettish:	7686	Quechua:	8185	Tamil:	8465		
Catalan:	6765	Gujarati:	7185	Lingala:	7678	Rhaeto-Romance:	8277	Tatar:	8484		

Specifications

Signal system:
U.S.A., Canada and units with PX printed on the outer packaging — NTSC
Other areas — PAL 625/50, PAL 525/60, NTSC
Operating temperature range: +5 to +35 °C (+41 to +95 °F)
Operating humidity range: 5 to 90 % RH (no condensation)
Discs played [8 cm (3 ″) or 12 cm (5 ″)]:
  (1) DVD-RAM (DVD-VR compatible, JPEG formatted discs)
  (2) DVD-Video   (3) DVD-R (DVD-Video compatible)
  (4) CD-Audio (CD-DA)   (5) Video CD
  (6) SVCD (Conforming to IEC62107)
  (7) CD-R/CD-RW
    (CD-DA, Video-CD, SVCD, MP3, WMA, JPEG formatted discs)
  (8) MP3/WMA※
    ●Compatible compression rate:
    MP3:   between 32 kbps and 320 kbps
    WMA: between 48 kbps and 320 kbps
  (9) JPEG※
    ●Exif 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)
  (10) HighMAT Level 2 (Audio and Image)

Video output:
  Output level: 1 Vp-p (75 Ω)
  Output connector: Pin jack (1 system)
S-video output:
  Y output level: 1 Vp-p (75 Ω)
  C output level:
    U.S.A., Canada and units with PX printed on the outer packaging
                        0.286 Vp-p (75 Ω)
    Other areas   NTSC; 0.286 Vp-p (75 Ω)
                        PAL; 0.300 Vp-p (75 Ω)
  Output connector: S terminal (1 system)
Component video output:
  U.S.A. and Canada   (480P/480I)
  Other areas   (NTSC: 480P/480I, PAL: 576I)
  Y output level: 1 Vp-p (75 Ω)
  PB output level: 0.7 Vp-p (75 Ω)
  PR output level: 0.7 Vp-p (75 Ω)
  Output connector: Pin jack (Y: green, PB: blue, PR: red)
  Number of connectors: 1 system

Audio output:
  Output level: 2 Vrms (1 kHz, 0 dB)
  Output connector: Pin jack
  Number of connectors: 2 channel: 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: 4 Hz–20 kHz
  (2) S/N ratio:
    ● CD Audio: 115 dB
  (3) Dynamic range:
    ●DVD (linear audio): 100 dB
    ●CD Audio: 98 dB
  (4) Total harmonic distortion:
    ●CD Audio: 0.0025 %
Digital audio output:
  Coaxial digital output: Pin jack
Pickup:
  Wave length: 662 nm/785 nm
  Laser power:
    U.S.A.   CLASS IIa/CLASS I
    Other areas   CLASS 2/CLASS 3A
Power supply:
  U.S.A. and Canada   AC 120 V, 60 Hz
  Russia, Australia and N.Z. AC 220–240 V, 50 Hz
  Other areas   AC 110–240 V, 50/60 Hz
Power consumption:
  U.S.A. and Canada   8 W
  Other areas   9 W
Power consumption in standby mode: 1 W
Dimensions: 430 (W)×227 (D)×55 (H) mm
                       [16 15/16″ (W)×8 15/16″ (D)×2 3/16″ (H)]
Mass: 1.9 kg (4.2 lb)

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

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

Changing the player settings

Specifications

11

Before requesting service, make the following checks. If you are in doubt about some of the check points, or if the remedies indicated in the chart do not solve the problem, refer to the "Customer Services Directory" on page 14 if you reside in the U.S.A., or refer to the "Product information" on page 13 if you reside in Canada. In other areas, consult your dealer.

Power

		Page
No power.	● Insert the AC power supply cord securely into the household AC outlet.	4
The unit is automatically switched to the standby mode.	● When "Auto Power Off" is set to "On", the unit automatically switches to standby after approximately 30 minutes in the stop mode.	10
	● The Sleep timer functioned.	8

No operation

No response when any buttons pressed.	● This unit cannot play discs other than the ones listed in these operating instructions.	3
	● 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 AC power supply cord, and then reconnect it.	–
	● Condensation has formed: Wait 1 to 2 hours for it to evaporate.	–
No response when remote control buttons pressed.	● Check that the batteries are installed correctly.	4
	● The batteries are depleted: Replace them with new ones.	4
	● Point the remote control at the remote control sensor and operate.	5
No picture or sound.	● Check the video or audio connection.	4
	● Check the power or input setting of the connected equipment.	–
	● Check that the DVD-RAM has something recorded on it.	–
You have forgotten your ratings password. Reset all the settings to Factory Preset.	● While stopped, press and hold [⏮/◀◀] and [⏸] on the unit and then also press and hold [⏏] on the unit until "Initialized" disappears from the television. Turn the unit off and on again. All settings will return to the default values.	–

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.	–
Programmed items are not played. `DVD-V`	● Some items cannot be played even if you have programmed them.	–
A menu screen appears during skip or search. `VCD`	● This is normal for Video CDs.	–

Subtitle

Subtitle position is wrong.	● Adjust the position. ("Subtitle Position" in Display Menu)	9
No subtitles.	● Display the subtitles.	8
The subtitles overlap closed captions recorded on discs.	● Clear the subtitles.	8

A-B repeat

Point B is automatically set.	● The end of an item becomes point B when it is reached.	–
A-B repeat is automatically canceled.	● A-B repeat is canceled when you press [QUICK REPLAY].	–

Picture incorrect

Picture distorted.	● Ensure that the unit is connected directly to the television, and is not connected through a video cassette recorder.	4
Picture size doesn't fit the screen.	● Change "TV Aspect" in "Video" tab.	10
	● Use the television to change the aspect. If your television does not have that function, change "4:3 Aspect" in Display Menu.	9
	● Change the Zoom setting.	8
The television may display incorrectly or colors appear faded.	● The unit and television are using different video systems. **U.S.A., Canada, Asia, and units with PX printed on the outer packaging** Use a multi-system or NTSC television. **Other areas** Use a multi-system or PAL television.	–
	● The system used on the disc doesn't match your television. **U.S.A., Canada and units with PX printed on the outer packaging** –PAL discs cannot be played.	–
	Other areas –PAL discs cannot be correctly viewed on an NTSC television.	–
	–This unit can convert NTSC signals to PAL 60 for viewing on a PAL television ("NTSC Disc Output" in "Video" tab).	10
Menu not displayed correctly.	● Restore the zoom ratio to ×1.00.	8
	● Set "Subtitle Position" in Display Menu to "0".	9
	● Set "4:3 Aspect" in Display Menu to "Normal".	9
Auto zoom function does not work well.	● Turn off TV's zoom function.	–
	● Use the other preset aspect ratios or manual adjustment.	8
	● Zoom function may not work well, especially in dark scenes and may not work depending on the type of disc.	–

Progressive video

There is ghosting when progressive output is on.	● Change "Video Output Mode" in Picture Menu to "480I". This problem is caused by the editing method or material used on DVD-Video, but should be corrected if you use interlace output.	9
Pictures not in progressive output.	● If the unit is connected to the television through VIDEO OUT or S VIDEO OUT, output will be interlace.	–
	● Select "Enable" in "Progressive Out (Component)" in "Video" tab. Then, select "480P" in "Video Output Mode" in Picture Menu.	9, 10
Closed captions not displayed.	● When progressive output is on, closed captions will not be displayed.	–

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Sound incorrect

		Page
Sound distorted.	• Select "Off" in "Advanced Surround".	6
	• Select "On" in "Attenuator" in Audio Menu if it causes distortion with AUDIO OUT connections.	9
	• Noise may occur when playing WMA files.	–
Piercing noise comes from the speakers.	• If you have connected a digital amplifier which does not include decoder, be sure to select "PCM" in "Dolby Digital", "DTS Digital Surround" or "MPEG∗" in "Audio" tab.	10
Effects do not work.	• None of the audio effects work when the unit is outputting bitstream signals from the DIGITAL AUDIO OUT terminal. In this case, connect with the AUDIO OUT terminal.	4
	• Some audio effects do not work or have less effect with some discs.	–
	• Advanced surround does not work if you have changed the play speed.	–

Recording

Cannot record to digital recording equipment. (Incorrect sound recorded.)	• You cannot record WMA/MP3.		–
	• You cannot record DVDs that have protection preventing digital recording.		–
	• You cannot record DVDs if the recording equipment cannot handle signals with a sampling frequency of 48 kHz.		–
	• Make the following settings:		
	– Advanced Surround:	Off	6
	– PCM Digital Output:	Up to 48 kHz	10
	– Dolby Digital/DTS Digital Surround/MPEG∗:	PCM	10

Unit displays

		Page
"noPLAy"	• You inserted a disc the unit cannot play; insert one it can.	3
	• You inserted a blank disc.	–
"U11"	• Disc is dirty: Wipe it clean.	3
"U15"	• You inserted a DVD-R that has not been finalized.	3
"H□□" **□□ stands for a number.**	• Trouble may have occurred. The number following "H" depends on the status of the unit. Turn the unit off and then back to ON. Alternatively, turn the unit off, disconnect the AC power supply cord, and then reconnect it.	–
	• If the service numbers fail to clear, note the service number and contact a qualified service person.	–
"nodISC"	• You haven't inserted a disc: Insert one.	–
	• You haven't inserted the disc correctly: Insert it correctly.	5

Television displays

		Page
"⊘"	• The operation is prohibited by the unit or disc.	–
"Cannot display group xx, content xx"	• You are trying to display incompatible contents.	7
"The progressive out is set to "Disable""	• Select "Enable" in "Progressive Out (Component)" in "Video" tab.	10
"This disc may not be played in your region"	• You can only play DVD-Video if their region number is the same or includes the same region number as the unit or if the DVD-Video is marked "ALL". Confirm the region number for the unit on the rear panel.	Cover
No on-screen display.	• Select "On" in "On-Screen Messages" in "Display" tab.	10

∗MPEG: `The Middle East, South Africa, Russia, Australia and N.Z.`

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:

In the U.S.A., refer to "Customer Services Directory" on page 14.

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.

Maintenance

Clean this unit with a soft, dry cloth.
• Never use alcohol, paint thinner or benzine to clean this unit.
• Before using chemically treated cloth, read the instructions that came with the cloth carefully.

RQT7240

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

Panasonic Sales Company, Division of Matsushita Electric
of Puerto Rico, Inc.,
Ave. 65 de Infantería, 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 Sales Company (collectively 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
 4900 George McVay Drive
 McAllen, TX 78503

For assistance in Puerto Rico call Panasonic Sales Company (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.

Limited Warranty Limits And Exclusions

This Limited Warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic 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.

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.

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/support
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@panasonic.com
You may also contact us directly at:
1-800-332-5368 (Phone) 1-800-237-9080 (Fax Only) (Monday – Friday 9 am to 8 pm, EST.)
Panasonic Services 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

Service in Puerto Rico

Matsushita Electric of Puerto Rico, Inc. Panasonic Sales Company
Factory Servicenter:
Ave. 65 de Infantería, Km. 9.5, San Gabriel Industrial Park, Carolina, Puerto Rico 00985
Phone (787)750-4300, Fax (787)768-2910

F1003

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.
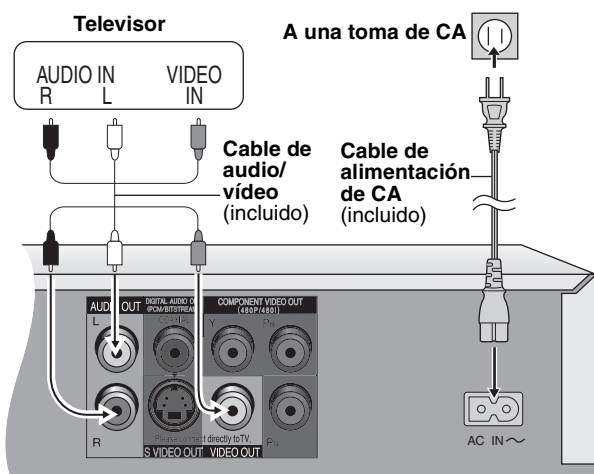
MODEL NUMBER _____
SERIAL NUMBER _____

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14

Conexiones

■ **Conexión a un televisor**

Televisor

AUDIO IN
R   L

VIDEO
IN

A una toma de CA

Cable de audio/vídeo (incluido)

Cable de alimentación de CA (incluido)

AUDIO OUT
L

DIGITAL AUDIO OUT (PCM/BITSTREAM)

COMPONENT VIDEO OUT (480P/480I)
Y   P_B

R

S VIDEO OUT   VIDEO OUT   P_R

Please connect directly to TV.

AC IN ~

Parte posterior del aparato

● Conecte el cable de alimentación de CA el último.

PREPARACIÓN RÁPIDA

Encienda el televisor y seleccione la entrada de vídeo apropiada en el mismo.

1 [⏻] Encienda.

2 [SETUP] Muestra la pantalla QUICK SETUP.

3 [▲ ▼] [ENTER] [RETURN] Pulse [▲ ▼] para seleccionar "Español" y pulse [ENTER]. Siga el mensaje y haga los ajustes.

4 [ENTER] Pulse para terminar PREPARACIÓN RÁPIDA.

5 [SETUP] Pulse para salir.

Reproducción básica

1 [⏻] Encienda.

2 [▲] Abre el cajón.

3 Introduzca el disco.

4 [▶] (PLAY) Inicie la reproducción.

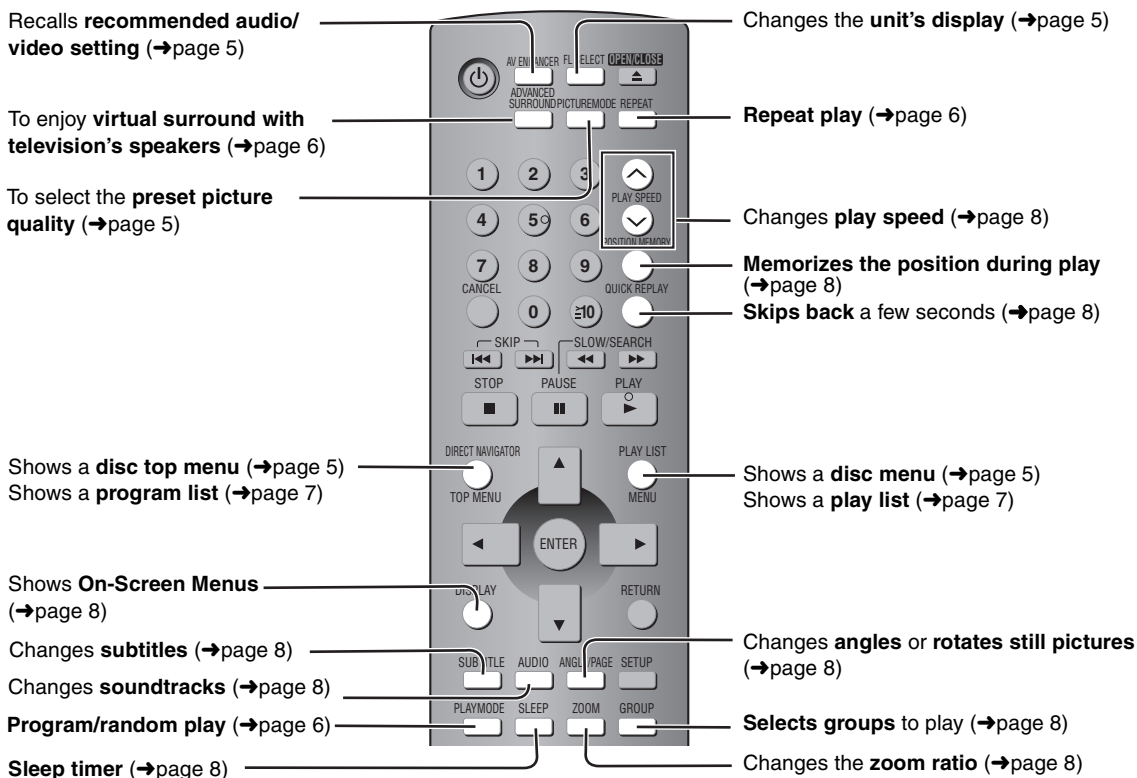|	
Parada [■]	La posición se memoriza cuando "▷" parpadea en el visualizador. ●Pulse [▶] (PLAY) para proseguir. ●Pulse [■] para borrar la posición.
Pausa [❚❚]	●Pulse [▶] (PLAY) para reiniciar la reproducción.
Salto [⏮ ⏭]	(Salto de grupo WMA MP3 JPEG [▲ ▼])
Búsqueda (durante la reproducción) [◀◀ ▶▶]	●Hasta 5 pasos ●Pulse [▶] (PLAY) para iniciar la reproducción. ● VCD Cámara lenta, sentido de avance solamente
Cámara lenta (durante la pausa) [◀◀ ▶▶]	
Cuadro a cuadro (durante la pausa) [◀ ▶]	● VCD Sentido de avance solamente
Selección de elemento en pantalla [▲ ▼ ◀ ▶] [ENTER]	
Introduzca número Botones numerados	RAM DVD-V VCD CD Ej.: Para seleccionar 12: [≧10] ➜ [1] ➜ [2] VCD con control de reproducción Durante la parada, pulse los botones numerados. WMA MP3 JPEG Ej.: Para seleccionar 123: [1] ➜ [2] ➜ [3] ➜ [ENTER]
Menú de disco [TOP MENU] [MENU] [RETURN]	DVD-V Muestra un menú inicial de disco DVD-V Muestra un menú de disco VCD Muestra un menú de disco
Vuelta a la pantalla anterior [RETURN]	
Visualizador del aparato principal [FL SELECT]	Visualización de números ↑ ↓ Visualización de tiempo

Referencia rápida en español

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Main feature index

Recalls **recommended audio/ video setting** (➜page 5)

To enjoy **virtual surround with television's speakers** (➜page 6)

To select the **preset picture quality** (➜page 5)

Changes the **unit's display** (➜page 5)

Repeat play (➜page 6)

Changes **play speed** (➜page 8)

Memorizes the position during play (➜page 8)

Skips back a few seconds (➜page 8)

Shows a **disc top menu** (➜page 5)
Shows a **program list** (➜page 7)

Shows a **disc menu** (➜page 5)
Shows a **play list** (➜page 7)

Shows **On-Screen Menus** (➜page 8)

Changes **subtitles** (➜page 8)

Changes **soundtracks** (➜page 8)

Program/random play (➜page 6)

Sleep timer (➜page 8)

Changes **angles** or **rotates still pictures** (➜page 8)

Selects groups to play (➜page 8)

Changes the **zoom ratio** (➜page 8)

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WMA is a compression format developed by Microsoft Corporation. It achieves the same sound quality as MP3 with a file size that is smaller than that of MP3.

Designed for Windows Media™

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http://emailbydomain.com

Auto manuals search

http://auto.somanuals.com

TV manuals search

http://tv.somanuals.com