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.

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Region number
The player plays DVD-Video marked with labels containing the region number “1” or “ALL”.
Example:

This manual was printed with soy based ink.
THE FOLLOWING APPLIES ONLY IN THE U.S.A.

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.

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.
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Accessories

(Only for U.S.A.) To order accessories, refer to "Accessory Purchases" on page 16.
(Only for Canada) To order accessories, call the dealer from whom you have made your purchase.

Use numbers when asking for replacement parts.

1 Remote control (EUR7631010)
1 AC power supply cord (K2CB2CB00016)
1 Audio/video cable (JAC3315N)
2 Remote control batteries

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

User memo:

DATE OF PURCHASE ___________________________________
DEALER NAME ________________________________________
DEALER ADDRESS _____________________________________
______________________________________________________
TELEPHONE NUMBER __________________________________

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

MODEL NUMBER ___________________ DVD-S47
SERIAL NUMBER __________________

Discs that can be played

<table>
<thead>
<tr>
<th>Disc</th>
<th>Logo</th>
<th>Indication in these operating instructions</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>DVD-RAM</td>
<td><img src="logo.png" alt="DVD-RAM Logo" /></td>
<td>RAM</td>
<td>Recorded using Version 1.1 of the Video Recording Format (a unified video recording standard).</td>
</tr>
<tr>
<td></td>
<td><img src="logo.png" alt="JPEG Logo" /></td>
<td>JPEG</td>
<td>Recorded using the DCF (Design rule for Camera File system) standard.</td>
</tr>
<tr>
<td>DVD-Audio</td>
<td><img src="logo.png" alt="DVD-Audio Logo" /></td>
<td><img src="logo.png" alt="DVD-A" /></td>
<td>—</td>
</tr>
<tr>
<td>DVD-Video</td>
<td><img src="logo.png" alt="DVD-Video Logo" /></td>
<td><img src="logo.png" alt="DVD-V" /></td>
<td>—</td>
</tr>
<tr>
<td>DVD-R</td>
<td><img src="logo.png" alt="DVD-R Logo" /></td>
<td><img src="logo.png" alt="DVD-R" /></td>
<td>—</td>
</tr>
<tr>
<td>Video CD</td>
<td><img src="logo.png" alt="Video CD Logo" /></td>
<td><img src="logo.png" alt="VCD" /></td>
<td>—</td>
</tr>
<tr>
<td>SVCD</td>
<td><img src="logo.png" alt="SVCD Logo" /></td>
<td><img src="logo.png" alt="SVCD" /></td>
<td>—</td>
</tr>
<tr>
<td>CD</td>
<td><img src="logo.png" alt="CD Logo" /></td>
<td><img src="logo.png" alt="CD" /></td>
<td>—</td>
</tr>
<tr>
<td>CD-R, CD-RW</td>
<td><img src="logo.png" alt="CD-R Logo" /></td>
<td><img src="logo.png" alt="WMA" />, <img src="logo.png" alt="MP3" />, <img src="logo.png" alt="JPEG" />, <img src="logo.png" alt="CD" /></td>
<td>—</td>
</tr>
</tbody>
</table>

* 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-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, DVD and SVCD that do not conform to IEC62107.

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

HighMAT™ and the HighMAT logo are either trademarks or registered trademarks of Microsoft Corporation in the United States and/ or other countries.
STEP 1 The remote control

- **Batteries**
  - 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.

**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.

**Enjoying multi-channel surround sound**

Amplifier with a built-in decoder or a decoder-amplifier combination

- **Optical IN** or **Coaxial IN**
  - Optical digital audio cable
  - Do not bend sharply when connecting.

STEP 3 QUICK SETUP

1. Power ON. Shows QUICK SETUP screen.
2. Follow the message and make the settings.
3. Press to finish QUICK SETUP.
4. Press to exit.

To change these settings later
Select “QUICK SETUP” in “Others” tab (page 12).

Disc handling

- To clean discs
  [DVD-A] [DVD-V] [VCD] [CD]
  Wipe with a damp cloth and then wipe dry.
  ≥ 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.

Manufactured under license from Dolby Laboratories. “Dolby” and the double-D symbol are trademarks of Dolby Laboratories.

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

Apparatus Claims of U.S. Patent Nos. 4,631,603, 4,577,216, and 4,819,098, licensed for limited viewing uses only.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

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

Windows Media, and the Windows logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries.

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

1. **Power ON.**
   - Press [●] (POWER) 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.

2. **Open the disc tray.**
   - Press to skip.
   - Press and hold to search/slow-motion.

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

4. **Start play.**
   - Press [●] (PLAY) to resume.
   - Press [■] to clear the position.

**Note**
- “D.MIX” on the display indicates that a multi-channel soundtrack can be down-mixed to two channels.
- Discs continue to rotate while menus are displayed. Press [■] when you finish to preserve the unit’s motor and your television screen.

If you are experiencing problems, refer to troubleshooting (page 14, 15).

**Enter number**
- e.g. To select 12: [≥10] ➜ [1] ➜ [2]
- WMA MP3 JPEG with playback control
- While stopped, press the numbered buttons.
- WMA MP3 JPEG
  - e.g. To select 123: [1] ➜ [2] ➜ [3] ➜ [ENTER]

**Disc menu**
- DVD-A DVD-V
  - Shows a disc top menu
- DVD-V
  - Shows a disc menu
- DVD-A DVD-V
  - Shows a disc menu

**Return to previous screen**
- Return

**Main unit display**
- Number display ➔ Time display

**Information screen**
- Subtitle
  - WMA MP3 JPEG
  - Turns the information screen on/off

**Standy/on switch (POWER) ➔**
- 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.
Enjoying higher quality audio and video

**AV Enhancer**

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

Press [AV ENHANCER] to select "On".

When AV Enhancer is on, you cannot change the settings indicated below.

**Audio settings:**
- Multi Re-master (ｷﾝ below), Advanced Surround (ｷﾝ page 11), Dialogue Enhancer (ｷﾝ page 11)

**Video settings:**
- Picture Mode (ｷﾝ page 11)

---

**Depth Enhancer**

Reduce the rough noise in the background to give a greater feeling of depth.

Press [DEPTH ENHANCER] several times to select from "0" through "+4".

---

**Multi Re-master**

Species recorded with 48 kHz only)

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

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

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

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

Press [MULTI RE-MASTER] to select "1", "2" or "3".

---

The above indicated features may not work depending on the discs recording.

Changing the play sequences

**All group/Program/Random play**

While stopped, press [PLAY MODE]. Each time you press the button:

- **All group** (entlich) → Program → Random

- **Off** (Normal play)

- Disable HighMAT disc play to use random and program play.

- Select "Play as Data Disc" in Other Menu (ｷﾝ page 11).

- **All Group play**

- Press [üğü] (PLAY).

- **Program play** (up to 32 items)

  1. Press the numbered buttons to select the items (WMA, MP3, JPEG) then press [ENTER].


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

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

- **Changing the program**

  Press [kü] 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 tray is opened.

- **Random play**

  1. Press the numbered buttons to select a group (WMA, MP3, JPEG) then press [ENTER] or a title.


- To exit the all group, program or random mode

  Press [PLAY MODE] several times while stopped.

- **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.
Using navigation menus

### Playing data discs [WMA] [MP3] [JPEG] [CD] (CD-text only)

- **WMA**
- **MP3**
- **JPEG**

You can play JPEG files on DVD-ROM or play HighMAT discs without using the HighMAT function (see page 11, "Play as Data Disc" in Other Menu).

#### Using playback menus (except JPEG files on DVD-ROM)

- **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].

#### To use the contents screen to find a track

- **CD** (CD text only)

#### 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"  
"JPEG", "jpg", "JPEG" or "jpeg"

#### 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).
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.
   - Press [►] 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].

#### 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 unviewable.
  - 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.
Playing HighMAT discs: WMA, MP3, JPEG

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

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].

To change the menu background
Press [DISPLAY].

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

Changing play speed

Press [▲, PLAY SPEED] or [▼, PLAY SPEED].

from 0.6 x 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).

Zoom

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 x to 1.60 (in 0.01 units)

from 1.60 x to 2.00 (in 0.02 units)

Quick replay

Except JPEG

(Only when the elapsed play time can be displayed)

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

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].

• 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

Press [◄ ◄] (PLAY) while the following message is displayed.

Do not press [►] (PLAY) if you want to cancel review.
Convenient functions

Audio

Press [AUDIO] several times to select the soundtrack.

- [RAM] (Karaoke discs)
  - Press [ ] to select “On” or “Off” of vocals. Read the disc's instructions for details.

- [DVD-V] (Karaoke discs)
  - Press [ ] to select “On” or “Off”. Read the disc’s instructions for details.

Signal type/data
LPCM/PPCM/CD Digital/DTS/MPEG: Signal type
kHz (Sampling frequency)/bit/ch (Number of channels)
Example: 32/2.1ch
  - 1: Low frequency effect (not displayed if there is no signal)
  - 2: Front left + Front right
  - 3: Front left + Front right + Center

Subtitle

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

To clear/display the subtitles
Press [ ] to select “On” or “Off”.

- [RAM] (Only discs that contain subtitle on/off information)
  - Subtitle on/off information cannot be recorded using Panasonic DVD Recorders. (Panasonic DVD-R that is finalized on a Panasonic DVD Recorder is not DVD-Video, but is the same format used for RAM indicated above.)

Using On-Screen Menus

1. Press once.
   - (When pressed twice, the elapsed play time indicator appears ➜ page 11)
2. Select Go to the next menu
   - Return to the previous menu
   - Register
3. Select the menu.
   - Make the settings.
4. Press to exit.

Items shown differ depending on the type of software.

Main menus

Program
  - To start from a specific item

Group

Title

Chapter

Track

Playlist

Content

Time
  - To skip incrementally or decrementally (Time Slip for play only)
    1. Press [ENTER] twice to show Time Slip indicator.
    2. Press [ ] to select the time and press [ENTER].
    - Press and hold [ ] to alter faster.
    - To start from a specific time (Time Search)
    - To change remaining/elapsed time display

Audio (+ above)
  - To display the current bitrate or sampling frequency

Still Picture
  - To switch still picture

Thumb

Marker(VR)
  - To recall a marker recorded on DVD-Video recorders

Angle (+ above)
  - To rotate picture

Slideshow
  - To turn on/off slideshow
  - To change the slideshow timing (0–30 sec)
Using On-Screen Menus

Other settings

Play Speed ( page 9)
AV Enhancer ( page 7)

■ Play Menu
(Only when the elapsed play time can be displayed
JPEG: Works with all JPEG content.)
Repeat ( page 7)
Except JPEG: [JPEG] (still picture part)
A-B Repeat
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: [CANCEL] [ENTER]
To recall a marker: [CANCEL] [ENTER]
To erase a marker: [CANCEL] [ENTER] again to cancel.

■ Marker
To mark positions to play

■ Picture Menu
Normal
Cinema 1: Mellow images and enhances detail in dark scenes.
Cinema 2: Sharpens images and enhances detail in dark scenes.

Picture Mode
Animation
Dynamic
User
Press [ENTER] to select "Picture Adjustment" ( page 7)

Picture Adjustment
Contrast
Brightness
Sharpness
Color
Gamma (Adjusts the brightness of dark parts.)

Depth Enhancer ( page 7)

Video Output Mode
480I (Interface) ↔ 480P (Progressive)

Transfer Mode
If you have chosen "480P" ( page 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
[RAM] [DVD] [VCD] (2 or more channels)
SP: Speaker 1 Natural SP 2 Enhanced
HP: Headphone 1 Natural HP 2 Enhanced
Off

■ Advanced Surround
To make the dialogue in movies easier to hear
[TV]: TV
[DVD]: DVD
[AV]: AV

Dialogue Enhancer

Multi Re-master ( page 7)

Attenuator
Switch on if sound is distorted. (For AUDIO OUT connection)
On → Off

■ 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

Just Fit Zoom ( page 9)
Manual Zoom ( page 9)

Bitrate Display
[RAM] [DVD-V] [VCD]
On → Off

GUI See-through
On → Off

GUI Brightness
— 3 to +3

■ Other Menu
Sleep ( page 10)

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

Play as DVD-VR or HighMAT
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.

■ Elapsed play time indicator
Condition—play, pause or slow/search
Current position
Current playback item
Elapsed play time
Play mode
---: Normal Play
ALL: All Group Play
PGM: Program Play
RND: Random Play
Changing the player settings

The settings remain intact even if you switch the unit to standby.
Underlined items are the factory preset.
See page 13 for operation.

“Disc” tab

Audio
Choose the audio language.

Subtitle
Choose the subtitle language.

Menus
Choose the language for disc menus.

Ratings
Set a ratings level to limit DVD-Video play.

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

“Video” tab

TV Aspect
Choose the setting to suit your television

Progressive Out (Component)

TV Type
Select to suit the type of television.

Time Delay
When connected with an AV amplifier and Plasma display, adjust if you notice the audio is out of sync with the video.

Still Mode
Specify the type of picture shown when paused.

Black Level Control
Change the black level of the picture if you connected a television through the COMPONENT VIDEO OUT terminals.

“Audio” tab

PCM Digital Output
Check the digital input limitations of the equipment you connect using COAXIAL or OPTICAL terminal and select the maximum sampling frequency of PCM digital output.

Dolby Digital

DTS Digital Surround

Dynamic Range Compression

Audio during Search

“Display” tab

Menu Language

On-Screen Messages

“Others” tab

FL Dimmer
Changes the brightness of the unit’s display.

Auto Power Off

HighMAT

QUICK SETUP

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

1 Audio

2 Video

3 Audio

4 Video

5 Audio

6 Video

7 Audio

8 Video

1. The original language designated on the disc is selected.
2. Input a code number referring to the table on page 13.
3. If the language selected for “Audio” is not available, subtitle appear in that language (If available on the disc).
Specifications

**Signal system:** 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-ROM (DVD-VR compatible, JPEG formatted discs)
- (2) DVD-Audio
- (3) DVD-Video compatible
- (4) CD-Audio (CD-DA)
- (5) SD-CD
- (6) Video CD
- (7) SVCD (Conforming to IEC62107)
- (8) CD-R/CD-RW
- (9) MP3/WMA
  - Compatible compression rate:
    - MP3: between 32 kbps and 320 kbps
    - WMA: between 48 kbps and 320 kbps
  - JPEG*: Exif Ver 2.1 JPEG Baseline files
  - Picture resolution: 320 x 400 and 640 x 480 pixels (sub sampling is 4:2:2 or 4:2:0)
  - HighMAT Level 2 (Audio and Image)

**Video output:**
- Output level: 1 Vp-p (75 Ω)
- Output connector: Pin jack (1 system)

**S-video output:**
- Output level: 1 Vp-p (75 Ω)
- Y output level: 0.286 Vp-p (75 Ω)
- C output level: S terminal (1 system)

**Component video output:**
- Output level: 1 Vp-p (75 Ω)
- P output level: 0.7 Vp-p (75 Ω)
- 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)
  - DVD-Audio: 4 Hz–88 kHz (192 kHz sampling)
- (2) THD ratio:
  - DVD (linear audio): 115 dB
- (3) Dynamic range:
  - DVD (linear audio): 100 dB
  - CD Audio: 98 dB
- (4) Total harmonic distortion:
  - DVD (linear audio): 0.0025 %
  - CD Audio: 0.0005 %

**Digital audio output:**
- Optical digital output: Optical terminal
- Coaxial digital output: Pin jack

**Pickup:**
- Laser power: 662 nm/785 nm

**Power supply:**
- Power consumption: 10 W

**Power consumption in standby mode:**
- 1 W

**Dimensions:**
- 430 (W) x 249 (D) x 52 (H) mm

**Mass:**
- 2.4 kg (5.3 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.
## Troubleshooting guide

Before requesting service, make the following checks. If you are in doubt about some of the check points, or if the remedies indicated in the chart do not solve the problem, refer to the “Customer Services Directory” on page 16 if you reside in the U.S.A., or refer to the “Product Information” on page 17 if you reside in Canada.

### Power

<table>
<thead>
<tr>
<th>Issue</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>No power.</td>
<td>- Insert the AC power supply cord securely into the household AC outlet.</td>
</tr>
<tr>
<td>The unit is automatically switched to the standby mode.</td>
<td>- When “Auto Power Off” is set to “On”, the unit automatically switches to standby after approximately 30 minutes in the stop mode. - The Sleep timer functioned.</td>
</tr>
</tbody>
</table>

### No operation

<table>
<thead>
<tr>
<th>Issue</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>No response when any buttons pressed.</td>
<td>- This unit cannot play discs other than the ones listed in these operating instructions. - The unit may not be operating properly due to lightning, static electricity or some other external factor. Turn the unit off and then back 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.</td>
</tr>
<tr>
<td>No response when remote control buttons pressed.</td>
<td>- Check that the batteries are installed correctly. - The batteries are depleted: Replace them with new ones. - Point the remote control at the remote control sensor and operate.</td>
</tr>
<tr>
<td>No picture or sound.</td>
<td>- Check the video or audio connection. - Check the power or input setting of the connected equipment. - Check that the DVD-RAM has something recorded on it.</td>
</tr>
<tr>
<td>You have forgotten your ratings password.</td>
<td>- While stopped, press and hold [D] and [;] on the unit and then also press and hold [&lt;] on the unit until “Initialized” disappears from the television. Turn the unit off and on again. All settings will return to the default values.</td>
</tr>
</tbody>
</table>

### Specific operation impossible or incorrect

<table>
<thead>
<tr>
<th>Issue</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>It takes time before play starts.</td>
<td>- 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.</td>
</tr>
<tr>
<td>Programmed items are not played.</td>
<td>- Some items cannot be played even if you have programmed them.</td>
</tr>
<tr>
<td>A menu screen appears during skip or search.</td>
<td>- This is normal for Video CDs.</td>
</tr>
<tr>
<td>The on-screen menu shows “2” as a soundtrack option when [AUDIO] is pressed, but the audio does not change.</td>
<td>- Even if a second soundtrack isn’t recorded, two numbers will normally be shown.</td>
</tr>
<tr>
<td>Play restarts from the beginning of the track when soundtrack is changed.</td>
<td>- This is normal on DVD-Audio.</td>
</tr>
</tbody>
</table>

### Subtitle

<table>
<thead>
<tr>
<th>Issue</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subtitle position is wrong.</td>
<td>- Adjust the position. (“Subtitle Position” in Display Menu)</td>
</tr>
<tr>
<td>No subtitles.</td>
<td>- Display the subtitles.</td>
</tr>
<tr>
<td>The subtitles overlap closed captions recorded on discs.</td>
<td>- Clear the subtitles.</td>
</tr>
</tbody>
</table>

### A-B repeat

<table>
<thead>
<tr>
<th>Issue</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Point B is automatically set.</td>
<td>- The end of an item becomes point B when it is reached.</td>
</tr>
<tr>
<td>A-B repeat is automatically canceled.</td>
<td>- A-B repeat is canceled when you press [QUICK REPLAY].</td>
</tr>
</tbody>
</table>

### Picture distorted

<table>
<thead>
<tr>
<th>Issue</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Picture size doesn’t fit the screen.</td>
<td>- Ensure that the unit is connected directly to the television, and is not connected through a video cassette recorder. - Change “TV Aspect” in “Video” tab. - Use the television to change the aspect. If your television does not have that function, change “4:3 Aspect” in Display Menu. - Change the Zoom setting.</td>
</tr>
<tr>
<td>The television may display incorrectly or colors appear faded.</td>
<td>- The system used on the disc doesn’t match your television. - PAL discs cannot be played. (You can play DVD-Audio, however still pictures may not be displayed correctly.)</td>
</tr>
<tr>
<td>Menu not displayed correctly.</td>
<td>- Restore the zoom ratio to 1:1.0. - Set “Subtitle Position” in Display Menu to “0”. - Set “4:3 Aspect” in Display Menu to “Normal”.</td>
</tr>
<tr>
<td>Auto zoom function does not work well.</td>
<td>- Turn off TV’s zoom function. - Use the other preset aspect ratios or manual adjustment. - Zoom function may not work well, especially in dark scenes and may not work depending on the type of disc.</td>
</tr>
</tbody>
</table>
### Progressive video

<table>
<thead>
<tr>
<th>Issue</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>There is ghosting when progressive output is on.</td>
<td>* 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.</td>
</tr>
</tbody>
</table>
| Pictures not in progressive output.                                   | * If the unit is connected to the television through VIDEO OUT or S VIDEO OUT, output will be interlaced.  
| Closed captions not displayed.                                        | * When progressive output is on, closed captions will not be displayed. |

### Sound incorrect

<table>
<thead>
<tr>
<th>Issue</th>
<th>Resolution</th>
</tr>
</thead>
</table>
  * Select “On” in “Attenuator” in Audio Menu if it causes distortion with AUDIO OUT connections.  
  * Noise may occur when playing WMA files.  
  * If the “D.MIX” indicator on the display goes out while playing a multi-channel DVD-Audio disc, sound will only be output from speakers specified by the disc. Read the disc’s instructions for details. |
| 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” or “DTS Digital Surround” in “Audio” tab. |
| 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.  
  * Some audio effects do not work or have less effect with some discs.  
  * Multi Re-master and Advanced surround do not work if you have changed the play speed. |

### Recording

<table>
<thead>
<tr>
<th>Issue</th>
<th>Resolution</th>
</tr>
</thead>
</table>
| 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  
    - PCM Digital Output: Up to 48 kHz  
    - Dolby Digital/DTS Digital Surround: PCM |

### Unit displays

<table>
<thead>
<tr>
<th>Issue</th>
<th>Resolution</th>
</tr>
</thead>
</table>
| “NOPLAY”                                                             | * You inserted a disc the unit cannot play; insert one it can.  
  * You inserted a blank disc. |
| “U11”                                                                | * Disc is dirty: Wipe it clean. |
| “U15”                                                                | * You inserted a DVD-R that has not been finalized. |
| “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. |

### Television displays

<table>
<thead>
<tr>
<th>Issue</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>“O”</td>
<td>* The operation is prohibited by the unit or disc.</td>
</tr>
<tr>
<td>“Cannot display group xx, content xx”</td>
<td>* You are trying to display incompatible contents.</td>
</tr>
<tr>
<td>“This disc may not be played in your region”</td>
<td>* You can only play DVD-Video if their region number is “1”, “ALL” or multiple region number including “1”.</td>
</tr>
</tbody>
</table>

### 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.
Limited Warranty (ONLY FOR U.S.A.)

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

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 failure which result from accident, 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 until 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.

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-5 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:
npparts@panasonic.com
You may also contact us directly at:
1-800-322-1999 (Phone) 1-800-211-PANA (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)758-2910

Limited Warranty (ONLY FOR U.S.A.)

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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

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.

<table>
<thead>
<tr>
<th>Product or Part Name</th>
<th>Parts</th>
<th>Labor</th>
</tr>
</thead>
<tbody>
<tr>
<td>DVD Player</td>
<td>One (1) Year</td>
<td>Ninety (90) Days</td>
</tr>
<tr>
<td>Rechargeable Batteries (in exchange for defective item)</td>
<td>Ten (10) Days</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

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:
Mail-In Service
Panasonic Consumer Electronics Company,
Division of Matsushita Electric Corporation of America
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.

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Servicenter or other Authorized Servicer, or damage that is attributable to acts of God.

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.

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Servicenter or other Authorized Servicer, or damage that is attributable to acts of God.

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.
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 16.
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.
Referencia rápida en español

Conexiones

- Conexión a un televisor

Telesvisor

A una toma de CA

Parte posterior del aparato

- Conecte el cable de alimentación de CA el último.

PREPARACIÓN RÁPIDA

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

1 [ ] Encienda.
2 [SETUP] Muestra la pantalla QUICK SETUP.
3 [ ] Pulse [ ] para seleccionar "Español" y pulse [ENTER]. [RETURN] 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) [ ]

Cámara lenta (durante la pausa) [ ]

Cuadro a cuadro (durante la pausa) [ ]

Selección de elemento en pantalla [ ] [ ] [ ] [ ]

Introduzca número Botones numerados

Ej.: Para seleccionar 12:

[ ] ➜ [1] ➜ [2] [ENTER]

Menú de disco [TOP MENU] [MENU] [RETURN]

DVD-A DVD-V VCD CD

Ej.: Para seleccionar un menú inicial de disco:

[1] ➜ [2] ➜ [3] ➜ [4] [ENTER]

Menú de disco [TOP MENU] [MENU] [RETURN]

DVD-A DVD-V VCD CD

Ej.: Muestra un menú de disco anterior.

Visualizador del aparato principal [FL SELECT]

Visualización de números

Visualización de tiempo
Main feature index

Recalls recommended audio/video setting (☞ page 7)
Reproduces high quality audio (☞ page 7)
Reduces noise in pictures (☞ page 7)
Shows a disc top menu (☞ page 6)
Shows a program list (☞ page 9)
Shows On-Screen Menus (☞ page 10)
Changes subtitles (☞ page 10)
Changes soundtracks (☞ page 10)
All group/program/random play (☞ page 7)
Sleep timer (☞ page 10)
Changes the unit’s display (☞ page 6)
Repeat play (☞ page 7)
Changes play speed (☞ page 9)
Memorizes the position during play (☞ page 9)
Skips back a few seconds (☞ page 9)
Shows a disc menu (☞ page 6, 8)
Shows a play list (☞ page 9)
Changes angles or rotates/advances still pictures (☞ page 10)
Selects groups to play (☞ page 10)
Changes the zoom ratio (☞ page 9)
Changes the unit’s display (☞ page 6)
Repeat play (☞ page 7)
Changes play speed (☞ page 9)
Memorizes the position during play (☞ page 9)
Skips back a few seconds (☞ page 9)
Shows a disc menu (☞ page 6, 8)
Shows a play list (☞ page 9)
Changes angles or rotates/advances still pictures (☞ page 10)
Selects groups to play (☞ page 10)
Changes the zoom ratio (☞ page 9)