CONGRATULATIONS

You have just acquired the finest transport system available for the playback of digitally encoded source material for both audio and video formats.

IMPORTANT

Save all packaging in a dry place away from fire hazards. Your Theta transport is a precision electronic instrument and should be properly packaged any time shipment is made. In the unlikely event that you have to return your unit to the factory for service, or if you send it to us for updating, the original packaging will best protect the unit from shipping damage or delay.

In order to achieve the fullest flexibility and enjoyment from your transport, we at Theta recommend that you read this manual in full before connecting the unit to your audio/video system.

WARNING

United States law prohibits disposition of these commodities to Libya, Laos, North Korea, Cambodia or Cuba unless otherwise authorized by the United States.

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio and 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 equipment and receiver.
* Connect the receiver into an outlet on a circuit different from that which the transport is connected.

Acknowledgments

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“DTS” and the DTS symbol are trademarks of Digital Theater Systems.

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CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK)
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.

WARNING
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK.
DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION: TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

CLASS 1 LASER

LASER SAFETY
THIS UNIT EMPLOYS A LASER. ONLY A QUALIFIED SERVICE PERSON SHOULD REMOVE THE COVER OR ATTEMPT TO SERVICE THIS DEVICE, DUE TO POSSIBLE EYE INJURY.

"CAUTION—USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURE OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE."
See What You Can Do

Dolby Digital*
Connect to a Digital Surround Amp and Surround Processor for 5.1ch Dolby Digital Surround entertainment.

Random Play*
You can enjoy playback of tracks (or chapters) in random order.

Multiple Languages*
With discs that have multiple language soundtracks recorded on them, you can select the desired language.

Virtual Dolby Surround**
With Virtual Dolby Surround you can enjoy a virtual sound presence that is three dimensional, even on the stereo system you are presently using. There may be no effect (or little effect) in some cases.

Program Play*
Lets you play back selected titles and chapters in any desired order.

Parental Level*
Lets you select a "parental level" (user restriction level) to prevent children from viewing undesirable material.

GUI Operation
While viewing Pioneer's original GUI on-screen displays, you can perform operations by remote control. Even if there is no menu recorded on a disc, you can still perform GUI operation with the menu provided by the player.

Multi-Aspect*
You can select between Regular, Wide, and Letter Box display formats.

PBC Video CD Compatibility
Ready to play Video CDs (Version 2.0) with PBC (Playback Control). Two types of playback are possible depending on the disc.

Continuous Play of Both Sides of LDs*
You can enjoy continuous playback of both sides of a laserdisc.

Cinema Mode & Animation Mode*
Lets you select the ideal picture quality for watching movies and animation movies.

- Last Memory Play*
If you stop video playback, this lets you resume play back from where it was stopped.

- Condition Memory
Records and automatically recalls settings for DVDs you often watch.

- Multilingual Subtitles*
You can select a desired subtitle language when watching movies and other videos.

- Repeat Play*
Wide range of Repeat Play possibilities.

- Multi-Angle*
Lets you view scenes from different camera angles.

* This mark indicates this may not be possible with certain discs.

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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.
**Disc Types Compatible with this Unit**

This player is DVD, LD, CD, and Video CD compatible. The marks shown on the right are found on disc labels or on disc jackets.

- This player can play all discs bearing the marks on the right without the need for an adaptor.
- To prevent malfunction, do not use an 8 cm (3 in.) adaptor for CDs.

This unit is NTSC compatible (TV color system). You cannot use discs other than those shown on the right.

* During DVD playback, data transfer is at 4.7 Mbit per second.

### Handling the discs

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<td>2 layers</td>
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### Disc Table

- **DVD Single, CD Single, Video CD Single**: 8 cm
- **DVD, CD, Video CD, CDV**: 12 cm
- **LD, LD Single**: 20 cm
- **LD**: 30 cm

#### Note

- You cannot play DVDs that do not bear the Region No. (refer to terminology on page 56), indicated on the player.

Discs other than those mentioned at right cannot be played. To prevent damage to the player, do not play a disc type other than those above (e.g.) DVD audio, CD-ROM, LD-ROM, DVD-ROM, High Definition LD etc.

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</tr>
<tr>
<td>8 cm (3 in.)/</td>
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<td>Digital audio</td>
</tr>
<tr>
<td>single-sided</td>
<td>2 layers</td>
<td></td>
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#### Disc Types Compatible with this Unit

- **VSD (Video Single Disc)**: Digital audio + video (max. 5 min.) Video part.
- In these operating instructions, the VSD is treated as a kind of CDV.
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- Audio cord
- Remote control unit
- Video cord
- Power cord
- Batteries...2
- Other included items:
  - Warranty card
  - Operating Instructions (this manual)

Inserting batteries into the remote control

1. While pressing the back cover, pull out in the direction indicated by the arrow.

2. Insert batteries. Make sure to match the plus (+) and minus (−) polarity guides on the batteries with the marks inside the battery compartment.

3. Close the cover.

Notes:
- Do not mix old and new batteries.
- Even batteries of the same type will differ in voltage. Do not mix old batteries with new batteries.
- When not using the remote control for a long period of time (over 1 month), remove the batteries to avoid possible damage from battery corrosion. If battery leakage occurs, wipe the battery liquid from the battery compartment, then insert new batteries.
Basic Operation

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Playing LDs

1. Press the POWER button.
   - The STANDBY indicator goes out.

2. Press the OPEN/CLOSE ▲ button.
   - Press the LD ▲ button on the player.
   - The disc table comes out.

3. Load a disc.
   - Load a single-sided disc with the label facing up, or load a double-sided disc with the label for the desired side facing up, using the disc table guide to align the disc.

4. Press the PLAY ► button.
   - Press the PLAY/PAUSE ►/■ button on the player.
   - When the A side of a double-sided disc has finished playing, playback of the B side automatically starts.

Not: Not aligning a disc with the disc guide, or loading two discs at once will result in damage to the disc(s) and player.

With a double-sided LD, load with the A side facing up and the B side facing down. Recorded A and B sides are on opposite sides of the disc itself.

Pressing the remote control's DISC SIDE A/B button switches between sides A and B. The A side or B side indicator lights on the player to confirm the selected side.

You can switch the display OFF by pressing the FL OFF button. If you do this, the indicator above the button lights.

FL OFF
O
Playing DVDs, CDs and Video CDs

1. Press the POWER button.
   - The STANDBY indicator goes out.

2. Press the DVD/CD ▲ button.
   - The DVD/CD disc table comes out.
   - The LD disc table and the DVD/CD disc table come out if you press the remote controls OPEN/CLOSE ▲ button.

3. Load a disc.
   - Load a disc with the label side facing up, using the disc table guide to align the disc.

4. Press the PLAY/PAUSE ▶/‖ button.
   - Press the PLAY/▶ button on the remote control unit.
   - Depending on the disc, a menu may be displayed. If a menu is displayed, refer to page 16.

Note
- The time taken for playback to start may differ depending on the type of disc previously played and the type of disc currently loaded.

Notes
- You cannot play DVDs that have no region number (refer to page 56).
- You cannot play DVDs that contain anything other than video data.
- During operation, the following marks may appear on the TV screen.
  - When you perform an operation that is not possible with the player.
  - When you perform an operation that is not possible with the disc.

- So as not to spoil the atmosphere of a video, you can switch the display OFF by pressing the FL OFF button. If you do this, the indicator above the button lights.
Chapter (Track) Skip Forward/Skip Back

Skipping forward to the next chapter (track)

Press the NEXT ►►►► button.
• Press to skip forward to the next chapter (track).
• Same operation as the FWD ►►►► button on the player.

Fast forward

Continue pressing the FWD ►►►► button.
• If you stop pressing while the on-screen “Scan” indication is flashing, normal play resumes.
• If the “Scan” indication lights, fast forward continues even if you stop pressing the button. Press the PLAY ► button to resume normal play when you reach your desired location.
• Continue pressing the FWD ►►►► button on the player to fast forward.

 Skipping back to the previous chapter (track)

Press the PREV ◄◄◄◄ button.
• Press once to skip back to the start of the chapter (track) currently playing.
• Press again to skip back to the start of the previous chapter (track).
• Same operation as the REV ◄◄◄◄ button on the player.

Fast reverse

Continue pressing the REV ◄◄◄◄ button.
• If you stop pressing while the on-screen “Scan” indication is flashing, normal play resumes.
• If the “Scan” indication lights, fast reverse continues even if you stop pressing the button. Press the PLAY ► button to resume normal play when you reach your desired location.
• Continue pressing the REV ◄◄◄◄ button on the player to fast reverse.
1. Press the STOP ■ button.
   • Playback stops.

2. Press the OPEN/ CLOSE ▲ button.
   • Press the LD ▲ button or the DVD/ CD ▲ button on the player.
   • The disc table comes out.

3. Remove the disc.

4. Press the POWER button.
   • The disc table goes back in, power switches OFF, and the STANDBY indicator lights.

Note:
• You can continue play from where you stopped part way through (refer to page 14).
Continuing Playback from where you Stopped

Memorizing the place where you stopped watching (LAST MEMORY)

Press the LAST MEMO button during play.
- The LAST MEMORY indicator lights on the player.
- Press the POWER button to switch power OFF, or press the STOP button to stop playback.

- With DVDs, LAST MEMORY memorizes video, audio, display, mode, and other settings as well as the place where playback stopped.
- Even with a disc you have memorized with LAST MEMORY, playback begins at the start of the disc if you press the PLAY| button.
- When you continue playback from the point where you stopped, LAST MEMORY is automatically canceled for that disc.
- If you register more than five DVDs in LAST MEMORY, details of the latest disc are memorized, while details of the least recent disc (the disc you registered first) are erased.
- If you eject an LD or Video CD, memorized details are erased.
- With DVDs, LAST MEMORY may not function with certain titles.

Resuming playback from where you stopped

Press the LAST MEMO button during STOP.
- When power is OFF, if you press the LAST MEMO button, power automatically switches ON, and play resumes from the place you stopped watching.

- Resuming play is not possible with CDs.
- During Video CD PBC play, Last Memory play may not be possible.
- If there is a power outage or you disconnect the power cord while the player is operating, Last Memory settings cannot be memorized. Before you disconnect the power cord, be sure to cancel the 'OFF' indicator in the display window by pressing the POWER button on the player or the POWER button on the remote control.

LAST MEMO indicator
POWER button
STOP button
Detailed Operation

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Playback by Menu Selection

DVDs and Video CDs, depending on the disc, feature selection menus. This player lets you choose a desired title or track by selecting from a menu.

Playing Back from Menu Display

1. Press \( \text{PLAY} \).
   - A menu is displayed. This menu is recorded on the disc. Menus differ depending on the disc.
   - With Video CDs that have Play Back Control, PBC is indicated in the display window.

2. Title (track) selection with the number buttons.
   - When selecting a number higher than 10, use the \( \text{SEL} \) button.
   - When selecting 10, press \( \text{SEL} \) + 1.
   - When selecting 17, press \( \text{SEL} \) + 7.
   - When selecting 20, press \( \text{SEL} \) + 2.
   - The selected title or track starts playing.
   - With DVDs, you can also select numbers with the \( \text{A} \) and \( \text{C} \) buttons and then press \( \text{SEL} \).

Returning to Menu Display during Playback

In case of DVDs

1. Press \( \text{TITLE} \).
2. Press \( \text{MENU} \).
   - Press \( \text{MENU} \) again for a menu of title contents.
   - Perform operations following indications provided in the menu.

In case of Video CDs

Press \( \text{RETURN} \).
   - Pressing the \( \text{RETURN} \) button during the PBC play shows the menu.

Notes

- You can also play Video CDs without calling up a menu by pressing a number button during STOP. For example, to start playback from track 1, press number button 1.
- Depending on the title, you can also make a selection using a menu. To do this, press the \( \text{SEL} \) button when indications are displayed to call up a menu, and select the desired title.
- During Video CD PBC play, Program, Random and Repeat Play functions do not operate. This is because you can use menus for interactive operation.
- With Video CDs when PBC is ON, player operation differs depending on the disc. For details, read the instructions that come with the disc.
- With DVDs, menu indications may not be displayed.
Direct Search with Title Numbers

1. Press **TITLE** during play. (When in the Stop mode, move to step 2 without pressing **TITLE**.)

   - Title numbers flash on screen.

2. Selecting title numbers directly with the number buttons.

   - When selecting title number 3, press **3**.
   - When selecting title number 10, press **10** → **0**.
   - When a title number is flashing, if you continue pressing **TITLE**, title numbers advance one at a time. When you reach the desired title number, you can select it by pressing **TITLE**.

Search with Menu

1. Press **TITLE**. (When in the Stop mode, move to step 3.)

2. Press **MENU** during play.

3. Select a title number using **A**/**V** buttons.

4. Press **ENTER**.

   - Playback of the selected title starts.

**Notes**

- You cannot playback successive titles.
- To playback multiple successive titles, program the titles and then perform Program playback. (Refer to page 19.)
- With certain DVDs, search operation may stop. In this case, the **Stop** mark appears.
- Depending on the disc, menu may not be displayed.

- You can also select titles directly using the number buttons. The selected title soon starts playing.
- Depending on the title, you can also make a selection using a menu. To do this, press the **SOUND** button when indications are displayed to call up a menu, and select the desired title.
Three ways to search a DVD or Video CD: normal search, direct search and time search are possible.
For CD, direct search only is possible.
Four ways to search an LD: normal search, direct search and time/frame search are possible.

**Chapter/Track Number Search (Normal Search)**

Direct search using the number buttons

Example 1: To select chapter/track number 3, press 

Example 2: To select chapter/track number 17, press 

- With DVDs, when performing this operation during the Stop mode, refer to "Searching for a Desired Video Scene/Audio Track Part 1" in page 17.

When the Chapter/Track number is high

1. **Press**.

- Chapter/Track number flashes.
- With DVDs, a menu may be displayed during the Stop mode. In this case, refer to "Chapter Number Search with Menu" on the right.

2. **Specifying Chapter/Track numbers with the number buttons**

Example 1. Selecting Chapter/Track 31 press 

Example 2. Selecting Chapter 187 press

3. **Press**

- The selected Chapter/Track starts playing.

**Chapter Number Search with Menu**

You can perform this with DVDs only.

1. **Press**.

   - When in the Stop mode, proceed to step 3.

2. **Press**.

   - Chapter menu is displayed.

3. **Make a selection following on-screen indications**.

   - With certain titles, there may be no menu display. In this case, perform the operations described at left.

**Time Number Search/Frame Number Search**

1. **Press twice**.

   - With DVDs or LDs that have no chapters, time is displayed after pressing the button once.

2. **Select the desired time number/frame number with the number buttons**

   Example 1: To select 21 minutes 43 seconds, press 

   Example 2: To select frame number 423, press 

   - With DVDs, you cannot search for chapters that overlap titles.

3. **Press**.

   - Playback starts from the selected elapsed play time or selected frame.

---

Notes:

- Time Search is not possible with CDs.
- With DVDs, search may not be possible with certain titles. In this case, the mark is displayed.
- When performing DVD or Video CD Time Search, playback may start from a slightly different time than that specified.
- When a DVD is not playing in the STOP mode, Time Search is not possible.
- During Video CD PBC play, search operations described above are not possible.

Searching for a Desired Video Scene/Audio Track Part 2
Programming (DVD)

1. Press PROGRAM.
2. Select the program type with the number buttons and press ENTER.

- If you select a title, move directly to step 3, and input the title number.
- If you select a chapter, the title number is indicated, and the chapter input menu is displayed. If the title number indicated is the one desired, move directly to step 3. If you want to change the title number, press the TITLE button, and then use the number buttons or buttons to change the number as desired.

3. Program titles or chapters using the number buttons.

When programming 9, 7, 18.

4. Press ENTER.

- Playback starts in the set order.

Confirming, adding to, and canceling programs

1. Press PROGRAM.
2. With DVDs, select the type of program and press ENTER.

- You can confirm programs by performing the above operations.

3. To add to programs, make selections with the number buttons.

4. To cancel a program, select the desired program with and press CLEAR.

Program setting (Video CDs, CDs, LDs)

1. Press PROGRAM.
2. Programming tracks 9, 7 and 18 in order.

- Press the number buttons in order.
- With double-sided LDs, program the disc side together with each track number. For example, for track 9 on side B, disc side: disc side: 

3. Press ENTER.

- Playback starts in the specified track order.

To cancel an entire program

During STOP, press CLEAR.
- The entire program for the disc loaded in the disc table is cleared.

Stopping program play

Press STOP.
- Program play stops.

Notes

- You cannot program when playing a Video CD (during PBC).
- When moving chapters, a chapter not programmed may appear on screen, but this is not a malfunction.
- With DVDs, programming may not be possible with certain titles. In this case, the mark is displayed.
- With DVDs, you cannot program chapters that are in different titles.

- You can program up to 24 steps.
- If you press the wrong number button, press CLEAR and then press the correct number button.
- Program play is not possible with discs that have no chapter numbers recorded on them.

Pressing CLEAR during programming:
If you press PAUSE instead of a number button, is displayed indicating that a pause has been programmed.
Repeat play of a chapter/track

Press the REPEAT button once during playback of the chapter or track you want to repeat.

Repeat play of a title

Press the REPEAT button twice.
- With DVDs, the title continues playing until the end, and then playback starts once more from the beginning of that title.
- With CDs and Video CDs, the entire disc is repeated.
- With LDs, a single side is repeated.

Repeat play of double-sided LDs

Press the REPEAT button three times.
- Both sides are repeated, starting on Side A.

Notes
- Press the REPEAT button to cancel Repeat play. The Repeat play mode is canceled, but playback continues.
- With DVDs, everything in the same title is repeated.
- During program play, press the REPEAT button, and the program is repeated.
- With DVDs, Repeat play may not be possible with certain titles. In this case, the mark is displayed.
- During Video CD PBC play, repeat play is not possible. To perform Repeat play, start playback without displaying a menu (refer to page 16), and press the REPEAT button.
Viewing one frame at a time with Step Playback

1. Press \( \text{ \text{[ ]} } \) button.

2. Press the \( \text{ \text{[ ]} } \) or \( \text{ \text{[ ]} } \) button.

- Each time you press it, you move ahead one frame.
- Each time you press it, you move back one frame. (LDs)
- Each time you press it, you move back a little. (DVDs)

Slow playback

During play, continue pressing the \( \text{ \text{[ ]} } \) or \( \text{ \text{[ ]} } \) button.

- Playback is slow.

During slow playback, you can adjust playback speed with the \( \text{ \text{[ ]} } \) and \( \text{ \text{[ ]} } \) buttons.

1/16 → 1/8 → 1/4 → 1/2

- Slow playback is in the reverse direction.

Notes

- There is no sound when viewing still frames or when advancing one frame at a time.
- Pause may not be possible with certain discs. In this case, the \( \text{ } \) mark is displayed.
- Slow playback may not be smooth with some Video CDs.
- With LDs, play automatically stops if still frame display continues for 20 minutes.

Viewing a Still Frame

Press \( \text{ \text{[ ]} } \) button.

- Press the PLAY/PAUSE \( \text{ \text{[ ]} } \) button on the front of the player.
- With LDs or DVDs, if still images are unclear, refer to "Field" on page 20, and perform the necessary settings.
With DVDs

Random play of chapters within a single title

Press \( \text{RANDOM} \) and then press \( \text{ENTER} \).

- "RANDOM CHP" is displayed on the screen, and chapters within a single title are played in random order.

Random play of titles

Press \( \text{RANDOM} \) twice, and then press \( \text{ENTER} \).

- "RANDOM TITLE" is indicated on the screen, and titles are played in random order.

With LDs

Press \( \text{RANDOM} \).

- "RANDOM" is indicated on the screen, and chapters are played in random order.

For random play of side B on an LD:
- Press \( \text{SIDE B} \), and then press \( \text{RANDOM} \) after side B has been selected.

With CDs and Video CDs

Press \( \text{RANDOM} \).

- "RANDOM" is indicated on the screen, and tracks are played in random order.

During random play:
- Press \( \text{STOP} \), and the player selects and starts playing the next track.
- Press \( \text{REPEAT} \), and the current track starts playing again from the beginning.

Stopping Random play

Press \( \text{CD} \).

- This returns you to normal playback of chapters/tracks in order from the chapter/track currently playing.

Notes

- Random play is not possible with LDs not featuring chapters.
- With Video CDs, Random play is not possible during playback with the menu displayed (PBC playback). To perform Random play, start playback without displaying a menu (refer to page 16), and press \( \text{RANDOM} \).
- Random play of programmed chapters is not possible.
- With DVDs, random play is not possible with certain titles.
- Random play cannot be repeated.
Setting

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  TV Software .................................................. 24
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  (Condition Memory) ......................................... 25
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  Operation ...................................................... 33
Multi-Aspect Setting for Wide Screen TV Software

Certain DVDs feature image data recorded with the "squeezed" recording system for wide screen viewing. When watching this kind of DVD on a conventional TV, the picture may appear vertically squeezed. If this occurs, you can use the Multi-Aspect function to achieve a normal picture.

1. Press ▼ when the player is in the STOP mode.

2. Select initial setting with ▼.

3. Press ENTER.

4. Select Multi Aspect with ▼.

5. Press ENTER.

6. Select the desired mode (Pan & Scan, Letterbox, Wide) with ▼ ▼.

7. Press ENTER.

With DVDs enabling switching between aspect ratios, select the appropriate one for your TV.

<table>
<thead>
<tr>
<th>Disc Aspect switching</th>
<th>Wide TV (16:9)</th>
<th>Regular TV (4:3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wide</td>
<td>□</td>
<td></td>
</tr>
<tr>
<td>16:9 Pan &amp; Scan</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Letterbox</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>4:3</td>
<td>□</td>
<td>□</td>
</tr>
</tbody>
</table>

Selecting □ in the chart above assures correct aspect ratio for the TV used.

Whether or not aspect ratio can be changed depends on the disc. Confirm by referring to the disc's jacket.

With disc not enabling aspect ratio changing, make adjustments with the TV.

Note:

- If there is a power outage or the power cord is disconnected while power to the player is ON, memorized settings are erased. When disconnecting the power cord, be sure to press POWER button on the main unit and the remote control until "OFF" is no longer indicated in the display.

- The width-to-height ratio of conventional TVs is 4:3, while the width-to-height ratio of wide screen and Hi-Vis TV is 16:9. This width-to-height ratio is called the aspect ratio.
Memorizing Settings for Often Viewed DVDs
(Condition Memory)

The Condition indicator in the display section lights. You can memorize details for the following five settings:

- Multi-Aspect (page 24)
- Multi-language (page 26)
- Multi-language subtitles (page 27)
- Cinema mode/Animation mode (page 29)
- Location (page 41)

Press \[ \Box \] during Play.

"CONDITION" is indicated in the display.

When a memorized disc is loaded

"CONDITION" is indicated, and previous settings are displayed.

Erasing memorized settings

Load a memorized disc, and during "CONDITION" is indicated, press \[ \Box \].
The recorded details for that disc are erased.

Note

- If there is a power outage or the power cord is disconnected while power to the player is ON, memorized settings are erased. When disconnecting the power cord, be sure to press POWER button on the main unit and the remote control until "OFF" is no longer indicated in the display.

- Settings are stored in memory for use any time.
- You can store settings for up to 30 DVDs in memory. If you memorize settings for more than 30 DVDs, previously memorized settings are erased in order from the least recently memorized settings.
- To make changes to Aspect ratio, Cinema mode/Animation mode, subtitle language, and language settings, press \[ \Box \] during playback.
- This player memorizes multi-language subtitles and multi-languages as languages not numbers. With DVDs that have multiple settings for the same language, playback starts from the first number.
Selecting Languages (Multi-Language)

Dolby Digital, PCM, and other audio data is recorded on DVDs in a number of languages, letting you choose the desired language.

1. Press ο during playback.

Note:
- You cannot switch languages if there is only one language recorded on the disc.
- Language number and setting differ with each disc, so refer to the disc's instructions.
- Some titles may not enable switching between languages. If this happens, the ο mark is displayed.

2. Press ο to select the desired language.

Note:
- Depending on the title, you can also make a selection using a menu. To do this, press the ο button when indications are displayed to call up a menu, and select the desired title.

Changing Audio Type

1. Press ο during playback.

Notes:
- Audio type changes each time you press the button.
- You cannot select digital audio if digital audio data is not recorded on the LD.
- You cannot switch audio type when using digital output (optical, coaxial) (RF output).
- With LDs, switching to the CX System is possible with some discs. In this case, you can perform switching with this operation.

Note:
- With karaoke and other software, set the appropriate audio type for singing and accompaniment after referring to information on the disc jacket or accompanying material.
Selecting Subtitle Language (Multi-Language Subtitles)

You can select a desired subtitle language with DVDs that have subtitle data in multiple languages recorded on them.

1. Press during playback.

2. Press to select the desired language.

Notes
- You cannot switch subtitles languages with discs that do not have subtitle data recorded on them, or discs that feature subtitle data in only one language.
- Some titles may not enable switching between subtitles languages. If this happens, the mark is displayed.

Notes
- To clear subtitles during playback, when there's a display press after first pressing . You can also clear subtitles by selecting OFF in the subtitle menu display.
- If the basic subtitle is set to "OFF" in the initial setting menu, you can cancel subtitles.
- Depending on the title, you can also make a selection using a menu. To do this, press the button when indications are displayed to call up a menu, and select the desired title.

Viewing from a Desired Camera Angle (Multi-Angle)

With DVDs featuring recordings of images shot from different angles, you can choose a desired viewing angle.

1. Press during playback.

Notes
- The camera angle changes each time you press the button.
- You can also make your selection from a menu.

Note
- Some titles may not enable switching between angles. If this happens, the mark is displayed.

To confirm whether multi-angle information is recorded on a disc

The disc jacket bears the mark. When a disc played on this player has sections that include multi-angle information, displays the mark.

Setting without displaying angle mark

1. Press .
2. Press the button.
   - The initial setting menu is displayed.
3. Press the button.
   - Shows the screen menu.
4. Press the button.
   - The angle mark menu is displayed.
5. Press the button.

Note
- You can use the Multi-Angle function only with discs featuring recordings of images shot from different camera angles.
- During Multi-Angle playback, the Angle indicator on the player lights.
- Depending on the title, you can also make a selection using a menu. To do this, press the button when indications are displayed to call up a menu, and select the desired title.
Viewing Information

Press  during playback.

- Each time you press the , setting changes as follows.
- If you press during the Stop mode, all the disc's information is displayed.

**Notes**
- To prevent TV screen burn-in, the display automatically switches OFF after about 60 minutes.
- Not displayed with LDs that do not have a TOC (refer to page 56) or after playback of side B finishes. There is also no display if Quick Turn is switched ON.

**< DVD >**

- Elapsed time
- Title number
- Chapter number

- Elapsed time
- Chapter time
- Elapsed time of the chapter currently playing
- Title remain:
- Remaining time of the title currently playing
- Title total:
- Total chapter number and total play time of the title currently playing

**< LD >**

- Elapsed time
- Chapter number

- All remain:
- Remaining time from the current location on the disc playing
- Total time:
- Total chapter number and total disc play time

**< CD >**

- Elapsed time
- Track number

- Track time:
- Elapsed time of the track currently playing
- Track remain:
- Remaining time of the track currently playing

**< Video CD >**

- (PBC on)

- Elapsed time
- Track number

- Track time:
- Elapsed time of the track currently playing
- Track remain:
- Remaining time of the track currently playing
Changing Picture and Sound Quality

Each time you press \( \text{MODE} \), settings change as follows.

(With DVDs)

\[ \text{MODE} \to \text{DISPLAY} \to \text{DIP-COMP} \to \text{VITAL-DATA SUPP} \]

Displays: with black and white during play

(With LDs)

\[ \text{MODE} \to \text{DIP-COMP} \to \text{VITAL-DATA SUPP} \]

Standard play (CAV) disc only

(With Video CDs)

\[ \text{MODE} \to \text{VITAL-DATA SUPP} \]

(With CDs)

\[ \text{VITAL-DATA SUPP} \]

Changing picture quality (mode)

1. Press \( \text{MODE} \) during play and select “MODE”.

   (DVD, Video CD)

   \[ \text{MODE} \]

   (LD)

   \[ \text{MODE} \]

2. Select the desired mode with the \( \text{◄} \) and \( \text{►} \) buttons.

   DVD, Video CD: Cinema → Animation → Standard
   LD: Cinema → Standard

Cinema:
Picture quality: Provides clear picture with clear black and white definition.

Animation:
Picture quality: Provides beautiful images with bright, clear colors.

Standard:
Picture quality: Returns you to standard picture and function settings.

Note:
- Picture quality may be poor depending on the software and the TV used. In this case, select the Standard mode.

**Important:**
- You cannot use the Animation mode for the video part of LDs and CDVs.
- You can use the same setting for CDV video part as for LDs.
Changing Still Frame conditions (PAUSE MODE)

During Still Frame play, switch to Field if the picture is out of focus.

1. During play, press \( \text{□} \), and select PAUSE MODE.

2. Select Field or Frame with \( \text{◄} \) and \( \text{►} \) buttons.

   The setting changes each time you press a button.

Changing sound quality (D.R.COMP)

D.R.COMP stands for Dynamic Range Compression. On the DVDs, sound has a wide dynamic range. Use D.R.COMP's sounds such as dialog are hard to hear on your stereo system or TV speakers.

1. Press \( \text{□} \) during play, and select D.R.COMP.

2. Switch ON or OFF with the \( \text{◄} \) and \( \text{►} \) buttons.

3. If you select ON, press \( \text{OK} \).

4. Adjust the degree of change with the \( \text{◄} \) and \( \text{►} \) buttons.

5. Press \( \text{OK} \).

- Pressing the \( \text{◄} \) or \( \text{►} \) button at step 4 switches between ON and OFF.
Switches to a more spacious sound (Virtual Dolby Surround)

1. Press ☐ during play, and select Virtual Dolby Surround.

2. Select ON with the ▲ and ▼ button.

SRS Labs, Inc.'s TruSurround system has been adopted as virtual technology.
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TruSurround is incorporated under license from SRS Labs, Inc.
Permission for use of TruSurround technology has been registered through SRS Labs, Inc.
**Quick LD Side Changing (Quick Turn)**

This function shortens the time required to change from A to the B side, or from the B to the A side when playing an LD.

1. Press **MENU** when play has stopped.

2. Press **ENTER**.

3. Select Quick Turn with the **△** and **▼** buttons.

4. Press **ENTER**.

Displays the selection menu of Quick Turn.

5. Select **ON** with the **△** and **▼** buttons and press **ENTER**.

Quick Turn is set to **ON**.

**Note**

When Quick Turn is ON, on-screen display of remaining and total play time cannot be used.

---

**Selecting a Desired Background Color**

You can select a color for menu displays and the screen when the player is not playing. You can set a color each for DVDs, LDs, and CDs (Video CDs).

1. Press **MENU** when the player is not playing.

(With a DVD)

2. With the **△** **▼** buttons, select "INITIAL" and press **ENTER**.

3. Select "B.G. COLOR" with the **△** **▼** buttons, and press **ENTER**.

4. Select the desired color with the **△** **▼** buttons, and adjust the color with the **◄ ►** buttons.

5. Press the **ENTER** button.
Outline of GUI (Graphical User Interface) Operation

On this player, various settings can be selected while watching menu screens and using the remote controller. Here we will explain how to access menu screens. Because menu screen access differs according to the type of disc being used or the playback mode (playback mode, stop mode etc.), refer to the following menu map when accessing.

Press (⇒) and you return to the display you had before you pressed (⇒).
# Button operation within each menu

<table>
<thead>
<tr>
<th>Button name</th>
<th>Button shape</th>
<th>Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>MENU button</td>
<td><img src="image" alt="MENU button" /></td>
<td>To leave the menu screen (settings are invalidated)</td>
</tr>
<tr>
<td>RETURN button</td>
<td><img src="image" alt="RETURN button" /></td>
<td>To return one menu screen back (Set up operation is completed. Reverse menu cannot be performed.)</td>
</tr>
<tr>
<td>Digit buttons</td>
<td><img src="image" alt="Digit buttons" /></td>
<td>Selection and conclusion (In the set up menu, some items only operate for selection.)</td>
</tr>
<tr>
<td>Direction button</td>
<td><img src="image" alt="Direction button" /></td>
<td>Selection</td>
</tr>
<tr>
<td>ENTER button</td>
<td><img src="image" alt="ENTER button" /></td>
<td>Setting and implementation (playback mode is engaged after title or chapter change)</td>
</tr>
<tr>
<td>PREVIOUS button</td>
<td><img src="image" alt="PREVIOUS button" /></td>
<td>To go to previous menu screen</td>
</tr>
<tr>
<td>NEXT button</td>
<td><img src="image" alt="NEXT button" /></td>
<td>To go to next menu screen</td>
</tr>
<tr>
<td>Direct button</td>
<td><img src="image" alt="Direct button" /></td>
<td>To go to menus (setting selected before moving to a new menu will be invalidated)</td>
</tr>
</tbody>
</table>

![Remote control diagram](image)
Examples of screen indicators and operation

Ex.1: Display content within menus/Button operation (Ex: DVDs)

Title name (Only displayed when information is included on disc)

Title No.

Indicates you can change setting with the < > buttons.

Audio type

Denominator: Total number
Numerator: Number currently selected.

Item No. is selected with ▲ ▼ button and can be changed with < > buttons.

Selection item No.

When selection is made by pressing a digit button or the ▲ ▼ button, and then pressing the ENTER button, the selection screens for the various set-up items will be displayed. Selecting 5[ENTER], however, will select the new setting changes and close the screen.

Ex.2: Display content within set up menus/Button operation (Ex: DVDs)

Current settings

Item numbers can be selected with the ▲ ▼ buttons and settings changed with the < > buttons.

Selection item No.

Selection can also be made with the digit buttons.
About the main menu (Ex: DVDs)

The main menu is the menu used for selecting the Title menu screen, Menu screen and Set up screen.

- **In the Title menu screen:** Titles can be selected and played back. (Title search)
- **In the Menu screen:** Chapters (songs), subtitles, audio and angles within a title can be selected.
- **In the initial setting menu:** You can perform on-screen setting of each function.
- **In the output setting menu:** You can select the audio signal or video signal output from the player's digital output jack.

About the title menu

Titles can be selected and played back. This selection screen is the same as the one in “Direct Search with Title Numbers” on page 17.

Menu screen contents

- To go to the Chapter screen
  - **In the Chapter screen:** One chapter (song) within a title can be selected and played back.
- To go to the Audio screen
  - **In the Audio screen:** Audio contents can be selected on discs that include more than one audio language or audio type.
- To go to the Subtitle screen
  - **In the Subtitle screen:** Subtitle contents can be selected on discs that include subtitle information.
- To go to the Angle screen
  - **In the Angle screen:** The scene angle that you want can be selected on discs that have been filmed from various angles.

Completes the setting of changes to the above items.
**Initial setting menu**

Use to change a wide range of settings. On the next page, the details of each item are provided.

**Output setting menu**

Use when you have selected audio output or video output from the player via the digital output jack. Change the setting to match your amplifier or monitor.

On the next page, the details of each item are provided.
## Settings Chart

<table>
<thead>
<tr>
<th>Class</th>
<th>Item</th>
<th>Details</th>
<th>Settings status</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Initial settings (factory settings )</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ON Display of operation indications</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>OFF No display of operation indications</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Normal When using a regular (4:3) TV.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Wide When using a wide TV (Not compatible with menu display)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>English</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>French</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Spanish</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>OFF No indication</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ON The saver is indicated.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>OFF The screen saver will not operate.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ON The screen saver will operate.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>English</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Selection possible depend on the disc</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Switchable</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Level 8</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Switchable between 1-8</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>English</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Selection possible depend on the disc</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Switchable</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>English</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Select one from 136 languages (See how to set the language on the next page)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>English</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Select one from 136 languages. (See how to set the language on the next page)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ON</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>OFF</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ON</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>OFF</td>
</tr>
</tbody>
</table>

- **Parental control**
- **Quick Turn**
- **Software menu**
- **Audio**
- **Subtitle**
- **Language setting**

---

**Outline of GUI (Graphical User Interface) Operation**
**Outline of GUI (Graphical User Interface) Operation**

<table>
<thead>
<tr>
<th>Class</th>
<th>Item</th>
<th>Details</th>
<th>Settings status</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Aspect</td>
<td>When watching wide mode software, this lets you adjust aspect ratio to suit your TV.</td>
<td><strong>Initial settings</strong> (factory settings)</td>
</tr>
<tr>
<td></td>
<td>Digital output</td>
<td>You can switch between audio output from the player’s digital output jack or the digital coaxial PCM/AX jack, Dolby Digital (sound system used at cinemas etc.) and Linear PCM (the same digital signal as CD) are the two standards for DVDs.</td>
<td><strong>PCM</strong> / <strong>DTS/DOLBY DIGITAL</strong> - Automatically selects Linear PCM, Dolby Digital or DTS depending on the audio signal of the DVD or CD being played. Dolby Digital and DTS require specifying decoding.</td>
</tr>
<tr>
<td></td>
<td>Video output</td>
<td>This lets you select between component output and regular output of video signals. If you select component output, the signal from the video output jack becomes black and white. You cannot switch to Component for watching video on CDs, CDVs or CDs bearing the GRAPHICS mark. With these discs, the player automatically switches to (S) video output.</td>
<td><strong>(S) video output</strong></td>
</tr>
<tr>
<td></td>
<td>Down sampling</td>
<td><strong>96 kHz</strong>: With PCM audio sources that have a sampling frequency of 96 kHz, this assures high sound quality. With audio sources that have a sampling frequency of 48 kHz, play is performed with sampling frequency unchanged at 48 kHz. <strong>48 kHz</strong>: During play, this compresses sampling frequency of 96 kHz discs to 48 kHz. 48 kHz discs are played as they are at a sampling frequency of 48 kHz. <strong>You can select the sampling frequency to match that of the audio signal recorded on a disc. Simultaneous switching between Analog output/Digital output is performed to match your selected sampling frequency.</strong> <strong>Some DVD format discs feature copy protect. With this kind of disc, when a sampling frequency of 96kHz is selected, no signal is output from the digital output. If you want to play this type of disc with digital output, select a sampling frequency of 48kHz from the menu.</strong></td>
<td><strong>96 kHz</strong></td>
</tr>
</tbody>
</table>

To return to the initial settings if they have been changed since you purchased the player, perform the following procedures.

If power to the player is **ON**, switch it **OFF**. While power is **OFF**, press the <button> button while pressing the <button> button.
Setting the Basic Language and Subtitle Language

Basic language

Change in order with the ▼ and ▲ buttons on the remote control.

Basic subtitle language

Press the remote control ▼ and ▲ buttons to make it flash, and then you can switch indication display ON or OFF with the ▼ and ▲ buttons.

Language code chart

<table>
<thead>
<tr>
<th>Language</th>
<th>Language code</th>
<th>Input code (upper)</th>
<th>Input code (lower)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Japanese</td>
<td>ja</td>
<td>10</td>
<td>01</td>
</tr>
<tr>
<td>English</td>
<td>en</td>
<td>05</td>
<td>14</td>
</tr>
<tr>
<td>French</td>
<td>fr</td>
<td>06</td>
<td>18</td>
</tr>
<tr>
<td>German</td>
<td>de</td>
<td>04</td>
<td>05</td>
</tr>
<tr>
<td>Italian</td>
<td>it</td>
<td>05</td>
<td>19</td>
</tr>
<tr>
<td>Spanish</td>
<td>es</td>
<td>09</td>
<td>20</td>
</tr>
<tr>
<td>Dutch</td>
<td>nl</td>
<td>14</td>
<td>12</td>
</tr>
<tr>
<td>Russian</td>
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Outline of GUI (Graphical User Interface) Operation
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Set Up

FRONT AND REAR CONTROLS AND CONNECTIONS

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1) STANDBY BUTTON:
This button puts the unit into the stand-by mode. The heat sensitive digital circuits are left on so that maximum audio and video performance is achieved without a long warm-up period.

2) STANDBY INDICATOR:
This LED will light when the unit is in the stand-by mode. It also indicates that the main power switch in the rear of the unit is in the on position.

3) LD DISC TABLE:
This large tray will open when the LD button on the front of the unit is pressed.

4) DVD/CD TABLE:
This small tray will open when the DVD/CD button on the front of the unit is pressed.

5) CD/LD INDICATOR:
This indicator will light when a CD or LD is loaded into the unit. It will alternately flash with the DVD indicator when loading a disc.

6) DVD INDICATOR:
This indicator will light when a DVD is loaded into the unit. It will alternately flash with the CD/LD indicator when loading a disc.

7) DISPLAY WINDOW:
The display shows a variety of indicators and messages. They are described in the display section of this manual.

8) REVERSE BUTTON:
Pushing the button once will start the track being played to begin again. Pushing the button again will skip to the previous track. Holding the button down will cause the unit to scan at a high rate. If the button is held down for an extended period of time and released, the unit will continue to scan unite the play button is pushed. (SEE PAGE 12)

9) FORWARD BUTTON:
The reverse of the above. (SEE PAGE 12)
FRONT PANEL CONTROLS AND FUNCTIONS

10) PLAY/PAUSE BUTTON:
This button will begin play of any disc. Pressing the button while the disc is playing will cause play to pause. Pressing the button again while in pause will resume play.

11) DVD/CD TRAY BUTTON:
Pressing this button will open the small tray for playing DVD's and CD's.

12) LD TRAY BUTTON:
Pressing this button will open the big tray for playing LD's. DVD's and CD's may also be loaded onto the big tray.

13) STOP BUTTON:
This button will stop the play of any disc.

14) FL. OFF BUTTON:
This LED will light when the display is turned off with the FL.OFF button. The display will come on for a few seconds when any of the buttons on the front of the unit or on the remote control are pressed. The quality of the audio and video will be enhanced with the display turned off.

15) SIDE A/B BUTTON:
Pressing these buttons will cause the reverse side of a LD to be played. If side A is playing and B is pushed the other side of the disc will be played.

16,17,18) SAMPLE RATE INDICATORS:
These three LEDs will light depending on the sampling rate of the disc being played. Most CD's will light the 44Khz LED indicator. Most DVD's will light the 48Khz indicator and discs recorded at 96Khz will light the 96Khz indicator.

REAR PANEL CONTROLS AND CONNECTIONS

1) "S" VIDEO OUTPUTS:
These video outputs should be connected to the "S" Video inputs of your video system. NOTE: when the video output of the unit is switched to "COMPONENT VIDEO", the "S" output will be BLACK AND WHITE ONLY.

2) LD ANALOG OUTPUTS:
These outputs are for the analog sound tracks found on LD's only.

3,4,5) COMPONENT VIDEO OUTPUTS:
These outputs are to be connected to inputs designed for COMPONENT VIDEO. These outputs are NOT RGB and should not be plugged into RGB inputs. The connectors are #3"Y", #4"Cr" #5"Cb". NOTE: Some TV manufacturers may designate Y-Cr-Cb in other terms. If this is the case, contact your dealer for the proper connections.
6) AC-3 RF OUTPUT:
This output is for the AC-3 RF signal used in the playback of LD's only. It should be only be connected to the AC-3 RF input of the audio system.

7,8) COMPOSITE VIDEO OUTPUTS:
These outputs should be connected to the video inputs of your system. NOTE: When the video output of the unit is switched to "COMPONENT VIDEO" the composite video outputs will be in BLACK AND WHITE ONLY.

9) PCM ONLY OUTPUT:
This jack outputs digital signals for LD's, CD's and in the case of DVD discs, the signal is a two channel down mix of the AC-3 surround. NOTE: When playing DTS DVD's this output jack is turned off.

10,11,12) PCM/AC-3/DTS OUTPUTS:
These three jacks differ only in the cable configuration (RCA,BNC,AES/EBU). They output a digital signal in one of three formats. PCM, AC-3 (in digital format not RF) and DTS. When the output is PCM any two channel D/A converter will decode the signal. When playing and AC-3 DVD, the signal must be decoded by a AC-3 surround sound decoder. DTS DVD discs must be decoded by a DTS decoder. These outputs may be switched from PCM / AC-3 / DTS to PCM only in which case the output would be the same as in #9.

13) OPTICAL OUT (OPTIONAL):
This unit can be equipped with either a AT&T optical output (multi-mode) or a "Laser Linque" optical output (single mode) transmitter.

OTHER CONTROLS AND CONNECTORS

14) CONTROL PORT (OPTIONAL)
Provision has been made for the future addition of an RS232 port. This port will connect to a full home automation system allowing control of the unit from a remote location.

15) MAIN POWER SWITCH:
This switch controls the main power input to the unit and should be left in the ON position. The front mounted Standby button powers down the display and other circuits leaving only the heat sensitive digital circuits on. This assures maximum audio and video quality without a lengthy warm-up period. The main power switch should only be turned off if the unit is not to be used for long periods such as vacations etc.

16) A/C IEC INPUT CONNECTOR:
This receptacle incorporates internal RFI circuits to prevent radio television interference and should be attached to the provided 3-wire A/C cord. Once attached, the 3-wire cord should be plugged directly into a 3-wire unswitched power outlet. DO NOT DEFEAT THE GROUND PIN.

WARNING

REGIONAL CODE BOX:
DVD units are set to operate in one of six world-wide regions. DVD discs also are coded for specific regions and will play only in units coded for those discs. This box indicates the region this unit is set to operate in.
Names and Functions

■ Front panel

■ Rear panel
Names and Functions

• Display window

Indicates GUI operation is being performed.
This lights during play of a disc with a sampling frequency of 96 kHz.

Indicates Multi-Angle playback is in progress.

Indicates Condition Memory operation is being performed.
Indicates Dolby Digital playback.
Indicates total playback time of side.

Indicates that chapter/track is being displayed.
Indicates playback mode, title, type of disc, etc. as shown below.
Indicates that title is being displayed.
Indicates location for Last Memory is being recorded in memory.
Indicates remaining playback time.

LD : LaserDisc
CD : Compact disc
CDV : CD video
DVD : DVD
VCD : Video CD
PDC PLAY OPEN : During Video CD P3C play
CLOSE : Disc table is opening or is open
RDM : Random playback
PROGRAM : Program mode
PGM : Program playback
R.TRK : Repeat mode
R.A : Start point of 2 point repeat playback
R.AB : 2 point repeat playback
R.TTL : Repeat playback of the title
R.CHP : Repeat playback of the chapter
R.SID : Both sides of LD repeat playback
STEREO : Stereo
PLAY : Playback
STOP : Stop
PAUSE : Pause
NO DISC : No disc
OFF : Power is turned off
MENU : Menu mode
TITLE : Title menu
CHAPTER : Chapter menu
SUB-TITLE : Subtitle menu
SETUP : Set-up menu
AUDIO : Audio menu
COND MEM : Condition Memory
LAST MEM : Last Memory
Remote control operation
When operating the remote control, point it at the remote sensor located on the player’s front panel. The remote control can be used up to 23 feet (7 m) from the player and within a 30° angle each side of the sensor.
- Exposing the remote sensor to direct sunlight or strong light may cause faulty operation.
- If the CONTROL IN jack on the player’s rear panel is connected to another component, point the remote control at that component for operation. Operation is not possible when pointed at this player. (Refer to page 48.)
- When using the remote control, first press the POWER switch to turn on the player's power.
## Troubleshooting

Incorrect operations are often mistaken for trouble and malfunctions. If you think that there is something wrong with this component, check the points below. Sometimes the trouble may lie in another component. Inspect the other components and electrical appliances being used. If the trouble cannot be rectified even after exercising the checks listed below, ask your nearest PIONEER authorized service center or your dealer to carry out repair work.

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Possible causes</th>
<th>Reference page</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Operation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. The disc table doesn't stay in even when it is closed.</td>
<td>• The disc is dirty. • The disc is not correctly loaded in the disc table. • The region number is different. • There's condensation inside the player. • SECAM system discs cannot be played.</td>
<td>p.54</td>
</tr>
<tr>
<td>2. Playback is not possible.</td>
<td>• This player is compatible with copy guard analog copy protect technology. Some discs may feature a copy protect signal. Playing this kind of disc with some TVs may result in horizontal lines in part of the picture and other picture defects, but this does not mean the player is malfunctioning.</td>
<td>p.5</td>
</tr>
<tr>
<td>3. The picture is unclear during DVD play.</td>
<td>• This player is compatible with copy guard analog copy protect technology. Some discs may feature a copy protect signal. If you record this kind of disc on a VCR and play it back, or play this kind of disc through a VCR, the copy guard system prevents normal playback.</td>
<td>p.56</td>
</tr>
<tr>
<td>4. If I record a DVD on a VCR and play it back, or play a DVD through a VCR, the picture is unclear.</td>
<td>• The selected operation is not possible with that disc. • Press the STOP button, and then press PLAY again.</td>
<td>p.53</td>
</tr>
<tr>
<td>5. The mark appears on screen.</td>
<td></td>
<td>p.5</td>
</tr>
<tr>
<td>6. The picture stops, and operation buttons do not function.</td>
<td></td>
<td>p.4</td>
</tr>
<tr>
<td>7. The picture is black and white.</td>
<td>• Video signal output is set to COMPONENT VIDEO OUT.</td>
<td>p.42</td>
</tr>
<tr>
<td><strong>Remote control</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8. The remote control doesn't operate.</td>
<td>• The rear panel control input jack on the player is being used. • You are too far from the player. Or the angle between the remote control and the remote control reception window is too large. • The remote control's batteries are dead. • Some TVs with wireless remote capability operate incorrectly with this player's remote control.</td>
<td>p.48</td>
</tr>
<tr>
<td><strong>Audio</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10. There's no sound. Sound is distorted.</td>
<td>• Plugs are not pushed in sufficiently, or plugs are disconnected. • Connection plugs and jacks are dirty. • The player is connected to a stereo amp's PHONO input jack. • Audio cable connection is incorrect. • Play is paused. • Stereo amp operation is incorrect. (In particular, check that input selection for CD, LD etc. is correct.) • Digital output is set for 96kHz. Digital output may not be possible with certain discs.</td>
<td></td>
</tr>
<tr>
<td>11. DVD sound volume level is low.</td>
<td>• DVD sound volume level may sound lower than other discs, but this is due to the disc's recording system, and is not due to the player malfunctioning.</td>
<td></td>
</tr>
</tbody>
</table>

**Caution:**

Abnormal functioning of this unit may be caused by static electricity, or other external interference. To restore normal operation, unplug the AC power cord and then plug it in again.
**For Proper and Long Use**

**DO NOT MOVE THE UNIT DURING PLAYBACK**
During playback, the disc rotates at high speed. Do NOT lift or move the unit during playback. Doing so may damage the disc.

**WHEN MOVING THE UNIT**
When changing places of installation or packing the unit for moving, be sure to remove the disc and return the disc table to its original position in the player. Then, switch the power OFF. Check that the "-OFF-" indication on the display goes off, then disconnect the power cord.

**INSTALLATION PLACE**
- Select a stable place to the side of a TV set or stereo system to be connected to the unit.
- When using the unit with a stereo system, install the speakers a little bit away from the TV.
- Do NOT install the unit on top of a TV or color monitor. Install the unit away from equipment that may be affected by magnetism, such as a cassette deck.

**AVOID INSTALLING IN A PLACE THAT IS:**
- Exposed to direct sunlight
- Exposed to humidity or where ventilation is poor
- Extremely hot or cold
- Exposed to vibration
- Exposed to dust
- Exposed to oily smoke, steam or heat (for example, a kitchen)

**DO NOT PLACE AN OBJECT ON TOP**
Do NOT place an object on the unit.

**DO NOT BLOCK VENTS**
Do NOT use the player on top of a long-fibered carpet, bed or sofa, and do not cover it with a cloth etc. This will prevent heat radiation and could result in damage.

**AVOID HEAT**
Do NOT place the unit on equipment generating heat, such as an amplifier.
When installing the unit in a rack, place it on the lowest shelf possible (however, not where it is exposed to dust) and separated from the amplifier to avoid the heat generated by the amplifier or other audio equipment.

**CAUTION: WHEN PLACING THE UNIT IN A STEREO RACK WITH GLASS DOORS**
Be sure there is ample space between the unit and the glass doors when opening the disc table using the remote control.
If the disc table opens against strong resistance, such as a closed glass door, damage to the unit may result.

**CONDENSATION**
Moisture will form in the operating section of the player if the player is brought from cool surroundings into a warm room or if the temperature of the room rises suddenly. When this happens, the player's performance will be impaired.
To prevent this, let the player stand in its new surroundings for about an hour before switching it on, or make sure that the room temperature rises gradually.
Condensation may also form during the summer if the player is exposed to the breeze from an air conditioner. In such cases, change the location of the player.

**SWITCH THE POWER OFF WHENEVER NOT USING THE UNIT**
Depending on the strength of the TV broadcast signal, having the TV set on while the power of the unit is ON may produce stripes on the TV screen. However, this is not a malfunction of this unit or the TV set. In such a case, switch the power of the unit OFF.

**POWER-CORD CAUTION**
Handle the power cord by the plug. Do not pull out the plug by tugging the cord and never touch the power cord when your hands are wet as this could cause a short circuit or electric shock. Do not place the unit, a piece of furniture, etc., on the power cord, or pinch the cord. Never make a knot in the cord or tie it with other cords. The power cords should be routed in such a way that they are not likely to be stepped on. A damaged power cord can cause a fire or give you an electrical shock. Check the power cord once in a while. When you find it damaged, ask your nearest PIONEER authorized service center or your dealer for a replacement.
CARE OF DISCS

How to hold discs
When loading or removing discs, try not to touch their playing surfaces.

Cleaning
Fingerprints or other dirt on the disc may affect sound and picture quality.

To clean your discs, use a soft clean cloth to wipe them. If necessary, moisten a soft cloth with diluted neutral detergent to remove heavy dirt or fingerprints.

Do not wipe in a circular direction (Concentric scratches in the disc groove tend to cause noise.)
Gently wipe from the inside toward the outer edge.
Discs must not be cleaned with record cleaning sprays, or static prevention sprays, etc. Also do not use volatile liquids such as benzine, or thinner, etc.

NEVER PLAY CRACKED OR WARPED DISCS.
- The disc revolves in the player at a high speed when it is played. Never play a cracked, scratched or warped disc. This may damage the player or cause it to malfunction.

Do not play a CD with a special shape
Do not play a CD having other shape than a circular disc, such as a heart shaped disc. Otherwise malfunction may occur.

After using discs, store them upright
After playing a disc, always remove it from the player and return it to its jacket. Then store it standing upright away from heat and humidity.
- Store discs carefully. If you store discs at an angle, or stacked on top of each other, discs may become warped even when in their jackets.
- Do not leave discs in locations such as the seat of car, which may become excessively hot.

CAUTION WHEN USING THE DISC
All rights reserved.
Unauthorized public performance, broadcasting or copying is a violation of applicable laws.

CLEANING CARE
Use a soft, dry cloth for cleaning. For stubborn dirt, soak the cloth in a weak detergent solution; wring well first and wipe. Use a dry cloth to wipe it dry. Do not use any volatile agents such as benzine or paint thinner, as they may damage the surface of the player.

LD/CD lens cleaner
The player’s pickup lens should not become dirty in normal use, but if for some reason it should malfunction due to soiling, consult your nearest PIONEER authorized service center. Lens cleaners for LD/CD players are commercially available, but special care should be exercised in their use since some may cause damage to the lens.

Notes on using the optional optical cable
- Do not route the cable around sharp objects. When storing, wind the cable so that it has a diameter of at least 15 cm (6 inches).
- When connecting, push the plug all the way into the terminal.
- Please don’t use cables with a length of over 3 m (10 feet).
- If moisture or dust has collected on the plug, wipe it with a soft cloth before connecting.
Terms

Dolby Digital (AC-3)*
The maximum 5.1 channels of audio used in the surround system Surround Digital for movie theaters is digital data compressed by AC-3.

For DVD discs, the digital output PCM/AC jack (coaxial or optical) must be connected to the amplifier or processor's digital input AC-3/PCM jack.
For LD discs, the AC-3 RF OUT (LD) jack must be connected to the amplifier's AC-3 RF IN jack.

Virtual Dolby Surround**
Sound can be enjoyed virtually when a 2 channel output player is used. To virtualize the audio output, refer to "Switches to a more spacious sound" on page 31.

PCM
PCM stands for Pulse Code Modulation and is digital audio. The digital audio of CD, LD or DVD discs is PCM.

Title number
Title numbers refer to titles of movies etc. As DVD discs have a large capacity, many movies can be recorded on one disc. For example, when 3 different movies are recorded on a disc, they are divided into TITLE 1, TITLE 2 and TITLE 3. Playback can be operated by selecting the title number.

Chapter number
Chapter numbers are the numbers assigned to sections on a title of the disc, similar to chapters in a book. If the disc includes these numbers, you can locate the section you want very quickly using chapter search and other functions. Some discs may not include chapter numbers.

Frame number
This is the number recorded in each frame on a CAV disc. You can use frame numbers for such operations as Frame Search for a desired frame.

Time number
The time number is the playback lapse time of a title in the disc from its beginning. The scene you want to locate can be searched for with the time number using the time number function etc.

LD (Laserdisc)
Depending on the signal recording method used, there are two types of Laserdiscs; Standard play discs (CAV) and Extended play discs (CLV).

CAV
CAV disc jackets or labels are marked with "Standard play disc/CAV" or "Standard Play".

CLV
CLV disc jackets or labels are marked with "Extended play disc/CLV" or "Extended Play".

Laserdiscs with digital audio
These type of discs are recorded with digital audio signals in addition to the analog audio signals. This allows you to enjoy high quality digital sound along with the laser disc's high quality picture.

Multi audio discs with digital sound
These type of discs are recorded with different types of digital audio and analog audio content.

Digital audio or MULTI AUDIO or
Digital audio or analog audio can be enjoyed by switching between them.

Parental level
This function was suggested by parents. Parental level restrictions are restrictions incorporated into scenes that parents do not wish their children to view.

TOC
TOC (Table Of Contents) information is data other than audio signal data, recorded at the beginning of a disc. As the name implies, it's like the list of contents in a book, with information such as the number of songs and playback time.
• Some LDs also feature a TOC.
• LDs and CDVs with a TOC belong to the "optical digital audio video disc system" family of discs.

* Manufactured under license from Dolby Laboratories.
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** SRS Labs, Inc.'s TruSurround system has been adopted as virtual technology. TruSurround is a trademark of SRS Labs, Inc. SRS and the SRS symbol are registered trademarks of SRS Labs, Inc. in the United States and selected foreign countries. TruSurround is incorporated under license from SRS Labs, Inc. Permission for use of TruSurround technology has been registered through SRS Labs, Inc.
Terms

Video CDs
These discs provide MD quality sound, and VHS quality video images. Thanks to MPEG1, the digital signal compression system, a single disc provides up to 74 minutes of continuous digital audio and video. There are also Video CDs with Playback Control (PBC) that let you select playback of desired scenes using menus, and view still images.

Playback Control (PBC)
This refers to signals recorded on a Video CD (Version 2.0) enabling playback control. You can use menus recorded on discs with PBC for easy, interactive search for desired scenes, and playback. You can also enjoy viewing high-resolution/standard resolution still images.

High-resolution images
If the high-resolution still images are recorded in the Video CD, you can enjoy viewing them with four times the resolution of moving images.

Screen saver
When a still picture is displayed for a long period a phenomena known as “screen burn” may occur. To avoid this, computers are equipped with screen savers.

Multi-angle
When you watch regular TV programs you are watching the image filmed through the TV camera. Because of this the picture is displayed on your TV from the viewpoint of the TV camera’s position. In a TV studio the image is filmed by many cameras at the same time, and one of those images is selected by the program director and transmitted to your household TV. If all the filmed images were transmitted to your TV you would be able to select the camera image you want. Some DVD discs are recorded with the angles of all camera’s used for filming and these can be selected using this player. These types of discs are called multi-angle discs.

Subtitle
Subtitles are language titles superimposed on movies etc. Up to 32 different subtitle languages can be recorded on a DVD disc. The subtitle function can be used to select the language of your choice.

Aspect ratio
Aspect ratio refers to the length to height ratio of TV screens. The ratio of a normal TV is 4:3, while the ratio of a Hi-vision TV or wide TV is 16:9. This allows you to enjoy a picture with a wider perspective.

Condition memory
"Condition" refers to the various mode settings etc. On this player, various conditions, such as those set during playback etc. can be memorized. This function allows you to play back the same disc at any time without having to reset the condition settings.

Regional restriction codes (region number)
Regional restriction codes are built-in to DVD players and DVD discs for each sales region. If the regional code of the DVD player does not match one of the regional codes of the DVD disc, playback will not be possible. At this time an indicator will appear on the screen. The region number is described on the rear panel.

<table>
<thead>
<tr>
<th>Player</th>
<th>Disc</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Player" /></td>
<td><img src="image2.png" alt="Disc" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Player</th>
<th>Disc</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image3.png" alt="Player" /></td>
<td><img src="image4.png" alt="Disc" /></td>
</tr>
</tbody>
</table>

Optical digital output
Normally, audio is converted to an electric signal and transmitted through an electric wire from the player to the amplifier etc. Changing this signal to a digital signal and transmitting it through an optical fibre cable is called optical digital output. (Optical digital input is the side receiving the signal such as the amplifier etc.)
You can switch the setting of the optical digital output.
- PCM/ ): Choose this setting when connecting to the Dolby Digital (AC-3) optical digital input of an amp equipped with a Dolby Digital (AC-3) decoder.
- PCM: Choose this setting when connecting to the optical digital output of a regular amp, a Dolby Pro Logic amp etc.

Dynamic range
Dynamic range refers to the difference between the maximum conversion level for transmission/conversion of distortion-free signals and noise and/or the minimum level limited by the equipment’s characteristics. Decibel units (dB) are used.
90 DAY LIMITED WARRANTY TERMS AND CONDITIONS
(1 Year / 2 Year optional extended service contract)

1. TERMS
Theta Digital Corporation, henceforth referred to as Theta, warrants the product designated herein to be free of manufacturing defects in material and workmanship, subject to the conditions set forth herein, for a period of 90 days from the date of purchase by the original purchaser, henceforth referred to as purchaser. If the purchaser registers the unit with Theta by mailing in the warranty card, together with a copy of the bill of sale, within 14 days of the date of purchase, said purchaser will be registered for an extended service contract. The extended service contract extends the 90 days to a period of 1 year on the mechanical portion of the unit and 2 years on the electronics, from the date of purchase by the original purchaser, or no later than 3 years from the date of shipment to the authorized Theta dealer, whichever comes first.

2. CONDITIONS
This warranty is subject to the following conditions and limitations. The warranty is void, and inapplicable if the product has been used or handled other than in accordance with the instructions in the owner's manual, abused or misused, damaged by accident or neglect or in being transported, or if the defect is due to the product being repaired or tampered with or modified by anyone other than Theta or an authorized Theta repair center. In the unlikely event that the unit requires service, contact Theta for an RA (Return Authorization) number. The product must be packed and returned to Theta or an authorized Theta repair center by the customer at his or her sole expense. Theta will pay return freight of its choice. A returned product must be accompanied by a written description of the defect, a photocopy of the original purchase receipt, and a daytime phone number where the owner can be reached. The unaltered receipt must clearly list model and serial number, the date of purchase, the name and address of the purchaser and authorized dealer and the purchase price. Theta reserves the right to modify the design of any product without obligation to purchasers of previously manufactured products and to change the prices or specifications of any product without notice or obligation to any person.

3. REMEDY
In the event the above product fails to meet the warranty, and the above conditions have been met, the purchaser's sole remedy under the limited warranty shall be to obtain an RA number and return the product to Theta or an authorized Theta repair center where the defect will be rectified without charge for parts or labor.

4. LIMITED TO ORIGINAL PURCHASER
This warranty is for the sole benefit of the original purchaser of the covered product and shall not be transferred to a subsequent purchaser of the product.

5. DURATION OF WARRANTY
This warranty expires 90 days after the date of original purchase. If Theta receives the completed warranty registration card within 14 days of original purchase, this period is extended to the second anniversary of the original date of purchase or no later that the third anniversary of the shipment to the authorized Theta dealer, whichever comes first.

6. MISCELLANEOUS
ANY IMPLIED WARRANTIES RELATING TO THE ABOVE PRODUCT SHALL BE LIMITED TO THE DURATION OF THIS WARRANTY. THE WARRANTY DOES NOT EXTEND TO ANY INCIDENTAL OR CONSEQUENTIAL COSTS OR DAMAGES TO THE PURCHASER. Some states do not allow limitations on how long an implied warranty lasts or an exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights, which vary, from state to state.

7. WARRANTOR
Inquiries regarding the above limited warranty may be sent to the following address:

THETA DIGITAL CORPORATION
5330 DERRY AVENUE, SUITE "R"
AGOURA HILLS, CA 91301

WARRANTY OUTSIDE THE USA
Theta has formal distribution in many of the countries of the free world, in each country the Theta Importer has contractually accepted the responsibility for product warranty. Warranty service should normally be obtained from the importing dealer or distributor from whom you obtained your product.

WARNINGS
1. To prevent fire or shock hazard, do not expose your Theta product to rain or moisture.

2. This unit contains voltages, which can cause serious injury or death. Do not operate with covers removed. Refer all servicing to your authorized Theta dealer.

3. For continued protection against fire hazard, replace fuses only with the same type and rating of fuses as specified.