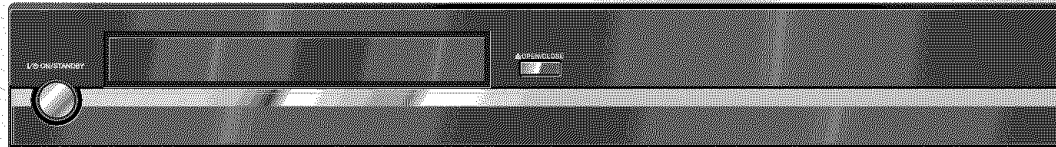


TOSHIBA

HD-A2KU

HD DVD player



OWNER'S MANUAL

HD DVD

DVD
VIDEO

COMPACT
disc
DIGITAL AUDIO

DOLBY
DIGITAL • PLUS

DOLBY
TRUE HD

DIGITAL
dts
SURROUND

HDMI

SHARC
PROCESSOR
by Analog Devices

Introduction

Connections

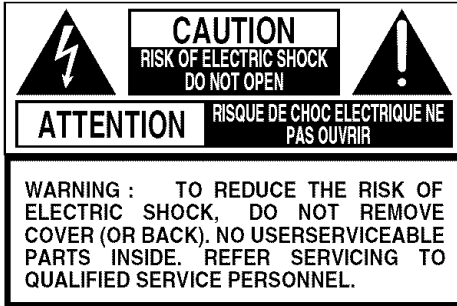
(Basic)

(Advanced)

connection

Others

SAFETY PRECAUTIONS



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. DANGEROUS HIGH VOLTAGES ARE PRESENT INSIDE THE ENCLOSURE. DO NOT OPEN THE CABINET. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

ATTENTION: POUR EVITER LES CHOCS ELECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

CAUTION: This HD DVD player employs a Laser System.
To ensure proper use of this product, please read this owner's manual carefully and retain for future reference. Should the unit require maintenance, contact an authorized service location - see service procedure.

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

To prevent direct exposure to laser beam, do not try to open the enclosure.
Visible and invisible laser radiation when open and interlocks defeated.
DO NOT STARE INTO BEAM.

FCC NOTICE: 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 Rule. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

WARNING: Changes or modifications made to this equipment, not expressly approved by Toshiba, or parties authorized by Toshiba, could void the user's authority to operate the equipment.

The instructions shall state that an ALL-POLE MAINS SWITCH with a contact separation of at least 3 mm in each pole shall be incorporated in the electrical installation of the building.

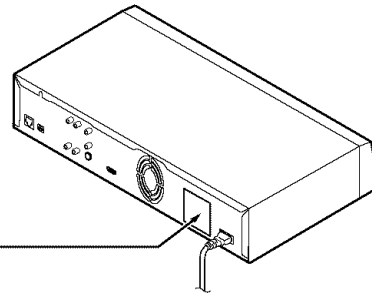
CAUTION: These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

In the spaces provided below, record the Model and Serial No. located on the rear panel of your player.

Model No. _____ Serial No. _____

Retain this information for future reference.

Location of the required label



IMPORTANT SAFETY INSTRUCTIONS

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.



ADDITIONAL SAFETY INSTRUCTIONS

15. Do not overload wall outlets; extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
16. Apparatus should not be exposed to dripping or splashing and no objects filled with liquids, such as vases, should not be placed on the apparatus.
17. Keep your fingers well clear of the disc tray as it is closing. Neglecting to do so may cause serious personal injury.
18. Do not place anything on top of this unit.
19. Do not place the apparatus on amplifiers or equipment that may produce heat.
20. Do not cover the ventilating holes for the inside cooling fan.
21. Do not use a cracked, deformed, or repaired disc. These discs are easily broken and may cause serious personal injury and apparatus malfunction.
22. If the apparatus should smoke or smell, immediately disconnect the power cord from the wall outlet. Wait until the smoke or smell stops, then ask your dealer for a check and repair. Neglecting to do so may cause fire.
23. During thunderstorms, do not touch the connecting cables or the apparatus.
24. Handling the cord on this product or cords associated with accessories sold with this product, will expose you to lead, a chemical known to the State of California to cause birth defects or other reproductive harm. Wash hands after handling.

Precautions

Notes on handling

- Never disconnect the power cord from a wall outlet while the player is turned on, unless it is in an emergency. Doing so may cause malfunction.
- When shipping the player, the original shipping carton and packing materials come in handy. For maximum protection, repack the unit as it was originally packed at the factory.
- Do not use volatile liquids, such as insect spray, near the player. Do not leave rubber or plastic products in contact with the player for a long time. They will leave marks on the finish.
- The top and rear panels of the player may become warm after a long period of use. This is not a malfunction.

When not in use

- For usual absence
Be sure to remove the disc from the player and turn off the power.
- Prolonged absence
Unplug the player from a wall outlet.

Notes on locating

- Place the player on a level surface. Do not use it on a shaky or unstable surface such as a wobbly table or inclined stand. The loaded disc may dislodge from its proper position and cause damage to the player.
Before placing the player, make sure that the surface can stand the weight of the player. Never place the player in a high location to avoid damage to the product or person by an accidental fall of the player.
- When you place this player near a TV, radio, or VCR, the playback picture may become poor and the sound may be distorted depending on the condition and location of said equipment. In such an event, place the player as far away much as possible from the TV, radio, or VCR.
- To avoid damage to this product, never place or store the unit in direct sunlight; hot, humid areas; or areas subject to excessive dust, oily smoke, cigarette smoke or vibration.

Notes on cleaning

Use a soft, dry cloth for cleaning.

- Do not use any type of solvent, such as thinner or benzene, as they may damage the surface of the player.

About the volume level

The volume level of some commercial DVD discs may seem lower than that of audio CDs, other software, etc. If you turn up the volume of the TV or amplifier to play such discs, be sure to turn it back down after playback finishes.

Playback restrictions

This owner's manual explains the basic instructions for this player. Some HD DVD discs or DVD video discs are produced in a manner that allows specific or limited operation during playback. As such, the player may not respond to all operating commands. This is not a defect in the player. Please refer to the notes on compatible discs later in this Introduction and to the discussion of DVD playback and features later in this manual.

“⊘” may appear on the TV screen during operation. “⊘” means that the operation is not permitted by the player or the disc.

About software

Because of problems and errors that can occur during the creation of HD DVD, DVD and CD software and/or the manufacture of HD DVD, DVD and CD discs, Toshiba cannot assure that this player will successfully play every disc bearing the HD DVD, DVD and CD logos. If you happen to experience any difficulty playing an HD DVD, DVD and CD disc on this player, please contact Toshiba Customer Service.

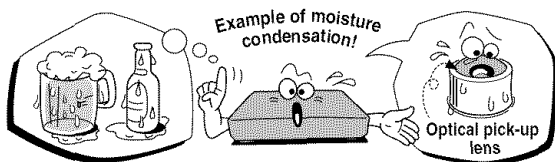
Some differences

The HD DVD player operates more like a computer and differently than a standard DVD player. In addition to containing a microprocessor, it contains an operating system, random access memory (RAM), and an HD DVD drive. The operating system includes software that is transferred to the RAM when the machine is turned on and at other times during operation. This transfer can take time. Therefore, when you turn the HD DVD player on, it may take a little while before it is ready to use. Likewise, other functions may not be performed as quickly as they would on other AV equipment. Please take these factors into consideration as you use the HD DVD player.

Notes on moisture condensation

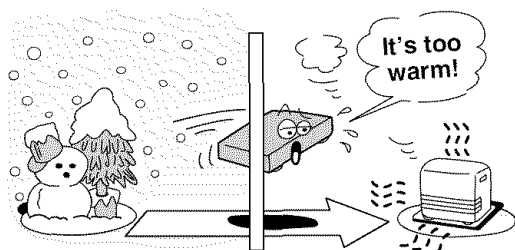
Moisture condensation damages the unit. Please read the following carefully.

Moisture condensation occurs, for example, when you pour a cold drink into a glass on a warm day. Drops of water form on the outside of the glass. In the same way, moisture may condense on the optical pick-up lens inside this unit, one of the most crucial internal parts of the unit.



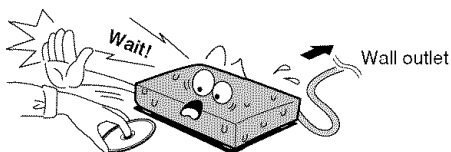
Moisture condensation occurs during the following cases.

- When you bring the unit directly from a cold place to a warm place.
- When you use the unit in a room where you just turned on the heater, or a place where the cold wind from the air conditioner directly hits the unit.
- In summer, when you use the unit in a hot and humid place just after you move the unit from an air conditioned room.
- When you use the unit in a humid place.



Do not use the unit when moisture condensation may occur.

If you use the unit in such a situation, it may damage discs and internal parts. Connect the power cord of the unit to the wall outlet, turn on the unit, remove the disc, and leave it for two or three hours. After two or three hours, the unit will have warmed up and evaporated any moisture. Keep the unit connected to the wall outlet and moisture condensation will seldom occur.



Notes on copyright

- The unauthorized recording, use, display, distribution, or revision of television programs, videotapes, HD DVDs, DVDs, CDs and other materials, is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and/or criminal liability.
- 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.

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HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

SHARC is a registered trademark and Melody is a trademark of Analog Devices, Inc.

All other brand and product names mentioned in this manual are trademarks and/or registered trademarks of their respective holders.

Features

Playback of HD DVD video discs

HD DVD video discs are high-density, high-capacity discs.

- The HD DVD disc standard has been approved by the DVD forum.
- HD DVD (single layer): 15 GB
HD DVD (dual layer): Maximum capacity of 30 GB
A single layer single sided disc (15 GB) has capacity of about 8 hours in 1125 line high definition picture; about 48 hours in 525 line standard definition picture (depending on bitrate of pre-recorded contents).
*1GB means 1,000,000,000 bytes.
- HD DVD Twin Format Discs have both HD DVD and DVD layers on one side. HD DVD Combination DVD Discs have HD DVD material on one side and standard DVD material on the other side. Because both disc types are new, such discs may not operate properly in this player.
- To view high-definition picture in HD DVD discs, an HDTV display (720p, 1080i) is required.
- Connect an HDTV set to the COMPONENT OUTPUT jacks or the HDMI OUTPUT jack on this player.
- Some discs may require use of HDMI OUTPUT for viewing of high resolution material.

Compatible with multiple disc types

- Playback of commercial HD DVD video disc, DVD video, and Audio CD
- Playback of HD DVD-R (disc recorded in HDVideo mode), DVD-RW (disc recorded in DVD VR mode or DVD video mode), and DVD-R
- Playback of CD-RW and CD-R (Audio CD of CD-DA format)


Because HD DVD is a new format, disc compatibility issues with new and existing format discs are possible. Not all discs are compatible. If you experience compatibility problems, please contact Toshiba Customer Service.

Blu-ray Discs cannot be played on this player.

Internet connection feature (LAN port)

- Some HD DVD discs enable you to access special HD DVD sites. If an HD DVD site includes content such as movie trailers, you can watch the content on the player via the Internet if your internet connection provides sufficient bandwidth.

Compatibility notes

- For compatibility, see  page 28.

Various output jacks

- An HDMI jack for connecting a single cable to output video and audio signals
- Component jacks

Certain system requirements

For high definition video playback:

- High definition display (720p and 1080i input capable).
- HD DVD disc with high definition content.
- HDMI or HDCP capable DVI input on your display device required for some content (as specified by disc authors).
- For up-conversion of standard definition DVD, an HDMI or HDCP capable DVI input on your display device is required for copy protected content.

For Dolby® Digital Plus, Dolby TrueHD and DTS-HD (DTS core only) multi-channel audio playback:

- Receiver or processor/amp combination that has a decoder compatible with these sound systems or HDMI™ multi-channel LPCM capable audio input.
- Main, center, surround speakers and subwoofer as necessary for chosen format.

For on-line interactive features:

- Ethernet connection to customer supplied always-on broadband internet service.
- Some features may require higher bandwidth.

Customer support

To reach Toshiba Customer Support in the U.S., please call 1 (800) 319-6684 or visit www.tacp.com/customersupport.

To reach Toshiba Customer Support in Canada, please call 1 (800) 268-3404 or visit www.toshiba.ca and click on support.

This HD DVD player is manufactured under the HD DVD Format adopted by DVD Forum. DVD Forum approved AACSS (Advance Access Content System) as content protection system for HD DVD Format like it approved CSS (Content Scramble System) for DVD Format. Therefore, certain restrictions are imposed on play, analog signal output, etc. of AACSS protected contents.

When you use pre-recorded contents, the contents may designate whether or not to apply such restrictions.

As those restrictions may be adopted and/or changed and announced by AACSS after the production of this product, the operation of this product and restrictions thereon may vary depending on the time you purchase this product.

To obtain updated information about AACSS and this product, please contact the following:

*In the U.S., please call 1 (800) 319-6684 or visit www.tacp.com/customersupport.

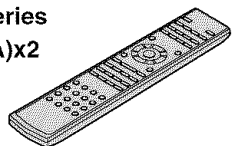
*In Canada, please call 1 (800) 268-3404 or visit www.toshiba.ca and click on support.

Accessories

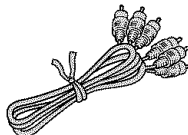
Accessories

Check that the following accessories are supplied.

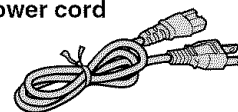
Remote control
Batteries
(AAA)x2



Audio/video cable



Power cord



Caution

- Do not use this power cord with any device other than this player.

Table of Contents

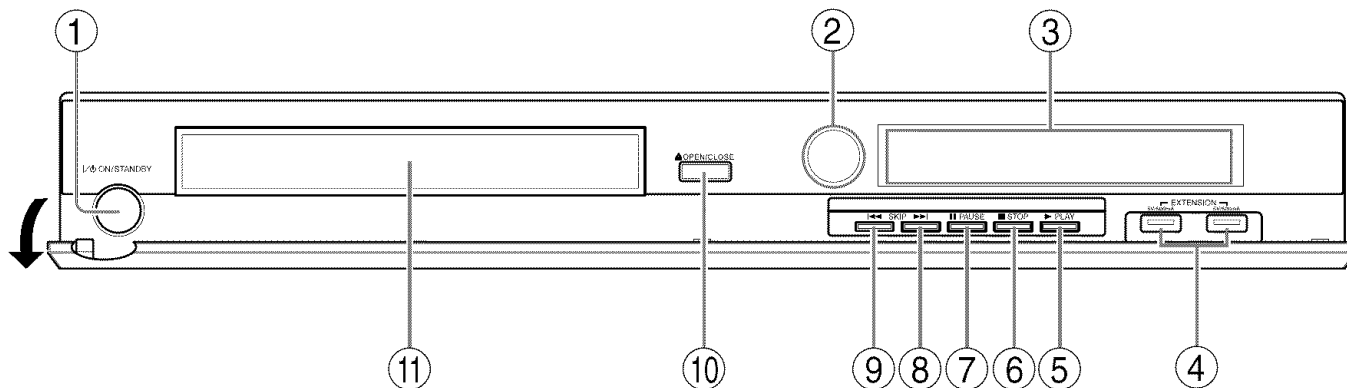
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Index to parts and controls

See pages with arrows for details.

Front panel



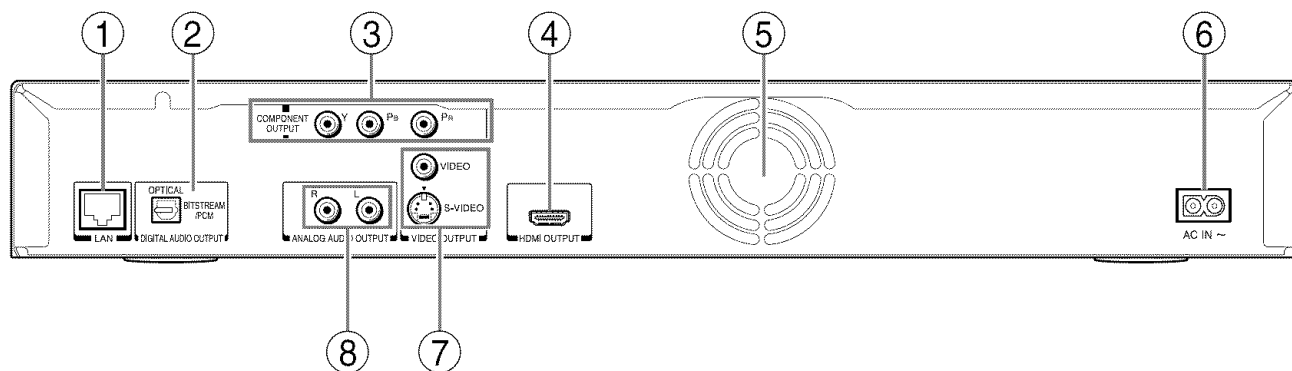
* The above illustration displays the front panel with the cover open.

Note

- Do not place a heavy object on the cover while it is open. Doing so may damage the player.

- | | |
|---|---|
| <p>① ON/STANDBY button / ON/STANDBY indicator ➡ page 30</p> <p>Turns the power on/restores the unit to the standby mode.</p> | <p>⑧ ▶▶ (SKIP) button ➡ page 35</p> <p>Skips to the next chapter or track.</p> |
| <p>② Remote sensor ➡ page 16</p> | <p>⑨ ◀◀ (SKIP) button ➡ page 35</p> <p>Skips to the previous chapter or track.</p> |
| <p>③ Front panel display ➡ page 14</p> | <p>⑩ OPEN/CLOSE button ➡ page 30</p> <p>Opens and closes the disc tray.</p> |
| <p>④ EXTENSION ports ➡ page 39</p> | <p>⑪ Disc tray ➡ page 30</p> <p>Loads a disc into the disc drive.</p> |
| <p>⑤ ▶ (PLAY) button ➡ page 31</p> <p>Starts playback.</p> | |
| <p>⑥ ■ (STOP) button ➡ page 31</p> <p>Stops playback.</p> | |
| <p>⑦ (PAUSE) button ➡ page 31</p> <p>Stops playback momentarily.</p> | |

Rear panel



① LAN port ➔ page 44

Use this to connect to a network with an always-on broadband connection.

② DIGITAL AUDIO OUTPUT BITSTREAM/PCM OPTICAL jack ➔ page 25

Outputs digital audio signals.

Connect to a digital audio input on an amplifier equipped with digital audio decoder.

When connecting the optional digital cable, fit the connector into the jack firmly.

③ COMPONENT OUTPUT jacks ➔ page 22

Outputs video signals to a connected TV or monitor.

Connect to a TV or monitor equipped with component video jacks.

④ HDMI OUTPUT jack ➔ page 21

Outputs video/audio signals to a connected TV, monitor or AV amplifier.

Connect to a TV, monitor or AV amplifier equipped with HDMI input.

⑤ Ventilation fan

Do not cover the ventilation holes.

⑥ AC IN socket ➔ page 21, 22

Connect the supplied power cord.

⑦ VIDEO OUTPUT (VIDEO, S-VIDEO) ➔ page 22

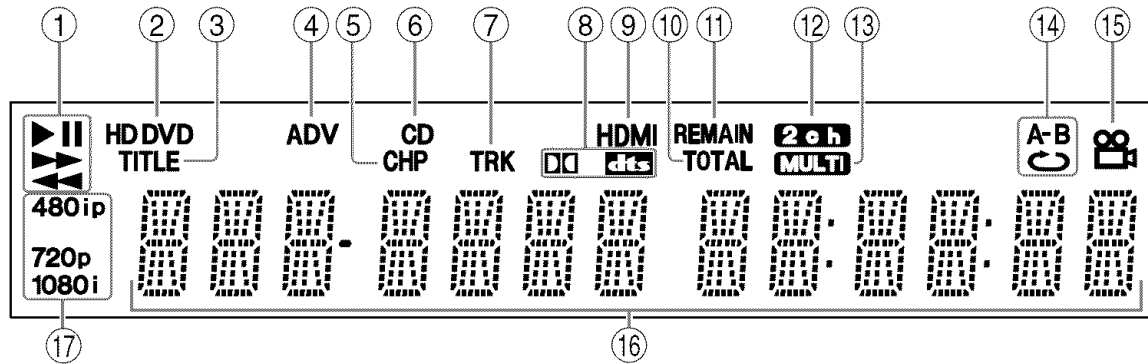
Outputs video signals to a connected TV or amplifier.

⑧ ANALOG AUDIO OUTPUT jacks ➔ page 22

Outputs audio signals to a connected TV or AV amplifier.

Index to parts and controls (Continued)

Display



- ① Status indicator**

 - ▶ : Playing
 - ⏸ : Pausing
 - ⏩ : Fast forward playback
 - ⏪ : Fast reverse playback
- ② Disc indicator**

 - HD DVD : Illuminates when an HD DVD disc is loaded.
 - DVD : Illuminates when a DVD disc is loaded.
- ③ TITLE indicator**

 - Illuminates when a title number is displayed.
- ④ ADV (Advanced) indicator**

 - Illuminates when advanced content is played.
- ⑤ CHP (Chapter) indicator**

 - Illuminates when a chapter number is displayed.
- ⑥ CD indicator**

 - Illuminates when a CD is loaded.
- ⑦ TRK (Track) indicator**

 - Illuminates when a track number is displayed.
- ⑧ Sound format indicator**

 - ⓁⓁ : Illuminates when Dolby Digital sound is output.
 - ⓁⓁⓁ : Illuminates when DTS sound is output.
- ⑨ HDMI Indicator**

 - Illuminates when HDMI connection is verified between the player and another device.
- ⑩ TOTAL indicator**

 - Illuminates when the total playing time of the disc is displayed.
- ⑪ REMAIN (Remaining) indicator**

 - Illuminates when a remaining playback time is displayed.
- ⑫ 2ch indicator**

 - Illuminates when 2 channel (L/R) sound is output.
- ⑬ MULTI indicator**

 - Illuminates when 5.1 channel sound is output.
- ⑭ Repeat mode indicator**

 - Illuminates when playing in repeat mode.
- ⑮ Angle icon indicator**

 - Illuminates when playing a scene recorded with multi angles.
- ⑯ Multi display**

 - Displays the total playing time of the disc, elapsed time, remaining time, title number, chapter number or message, etc.
- ⑰ Video output format indicator**

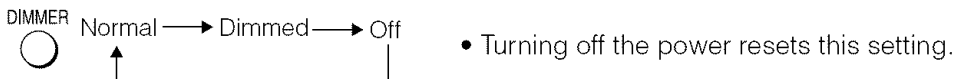
 - Displays the video output format currently selected.
 - 480i : 480 interlace
 - 480p : 480 progressive
 - 720p : 720 progressive
 - 1080i : 1080 interlace

Switching the display

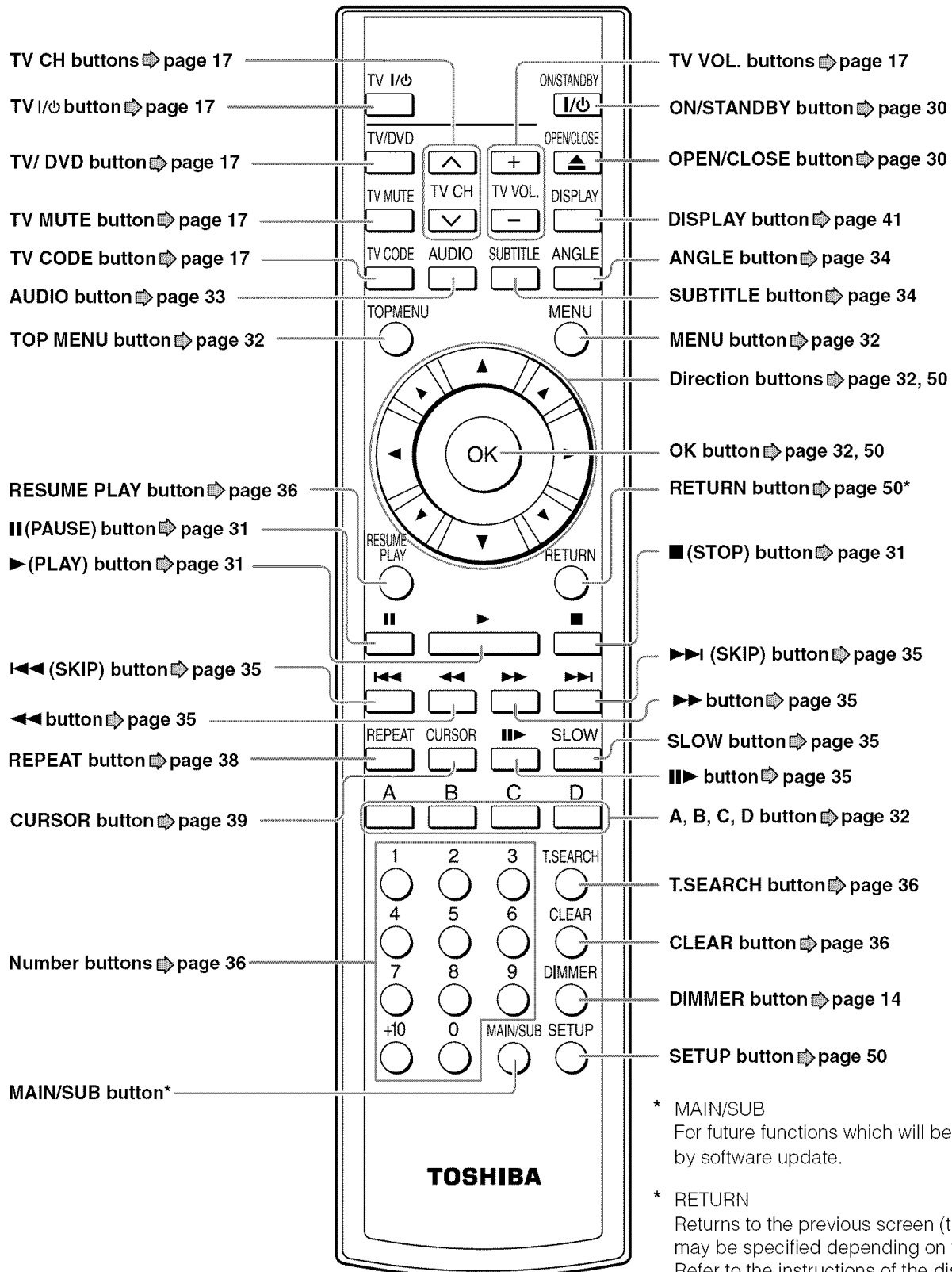
DISPLAY Every time you press DISPLAY button on the remote control, the display changes the contents.
 The display may not change, depending on the disc conditions.

Dimming the display

Pressing DIMMER button on the remote control changes the brightness of the display.



Remote control

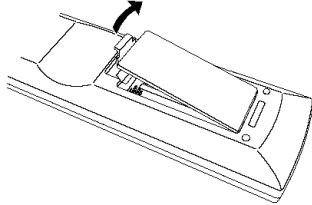


Preparation of the remote control

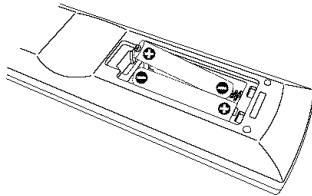
Set up the remote control to operate the player and your TV.

Loading batteries

1 Open the cover.



2 Insert batteries.

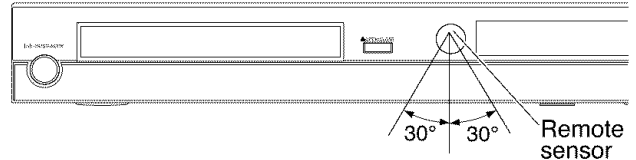


- Use 2 batteries (AAA sizes).
- Make sure to match the + and – on the batteries to the marks inside the battery compartment.

3 Close the cover.

Operating with the remote control

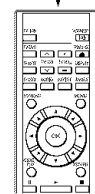
Point the remote control at the remote sensor and press the buttons.



Distance: About 7 m (23 ft) from the front of the remote sensor

Angle : About 30° in each direction of the front of the remote sensor

Within about 7 m (23 ft)



Notes

- Do not drop or give the remote control a shock.
- Do not leave the remote control near an extremely hot or humid place.
- Do not spill water or put anything wet on the remote control.
- Do not disassemble the remote control.
- Dispose of batteries in a designated disposal area.
- Batteries should always be disposed of with the environment in mind.
- Always dispose of batteries in accordance with applicable laws and regulations.
- If the remote control does not operate correctly, or if the operating range becomes reduced, replace all batteries with new ones.
- When necessary to replace batteries in the remote control, always replace all batteries with new ones. Never mix battery types or use new and used batteries in combination.
- Be sure to use AAA size batteries.
- Always remove batteries from remote control if they are dead or if the remote control is not be used for an extended period of time. This will prevent battery acid from leaking into the battery compartment.

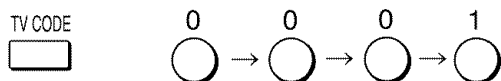
Caution

- Never throw batteries into a fire.

Programming for TV control

1 While holding , press the number buttons to enter a corresponding brand code (see below) of your TV.

e.g. To enter 0001



Hold down.

- Some brands have several codes. Try one by one until the remote control can operate your TV.

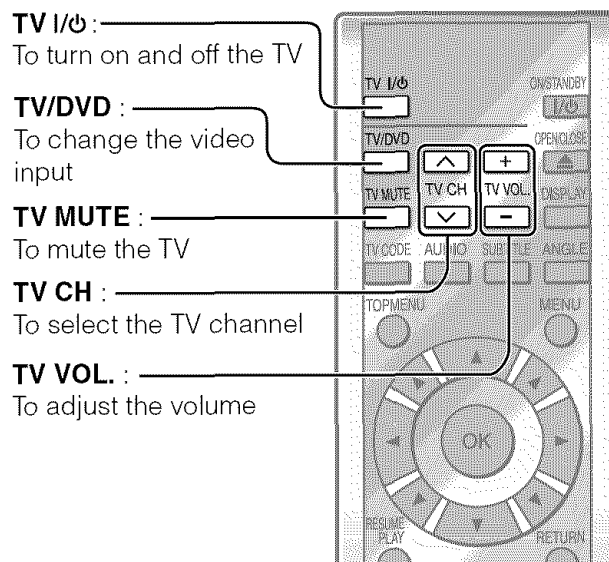
2 Release .
The brand code is memorized.

Notes

- TOSHIBA code is already set when you operate this player for the first time.
- When replacing the batteries of the remote control, re-enter the brand code of your TV.

Operating your TV with the remote control

Point the remote control to your TV after you have entered the brand code. Operate your TV with the buttons below.



TV I/O :
To turn on and off the TV

TV/DVD :
To change the video input

TV MUTE :
To mute the TV

TV CH :
To select the TV channel

TV VOL. :
To adjust the volume

Notes

- For some TVs, pressing the volume button once may change the volume by more than one level.
- Even after the player's remote control is programmed, it may not operate some or all of the features on your other device.

If this happens and you wish to use those features, you will need to use the device's original remote control.

Brand code table

| Brand name | Brand code | | | | | | |
|---------------|------------|------|------|------|------|------|--|
| Toshiba | 0001 | 0021 | 0071 | 0411 | 0431 | 0831 | |
| | 0841 | 0851 | 0881 | 1341 | 1611 | 1621 | |
| | 1681 | 1781 | 1951 | 2121 | 2461 | 2491 | |
| | 4071 | 4371 | 5951 | 5971 | 6041 | 6101 | |
| | 6111 | 6121 | 6131 | 6141 | | | |
| Bell & Howell | 0081 | 0431 | | | | | |
| Citizen | 0051 | 0381 | 0471 | 0551 | 0621 | 0851 | |
| | 1561 | | | | | | |
| Curtis Mathes | 0051 | 0391 | 0431 | 0531 | 0621 | 0851 | |
| | 1521 | 1561 | | | | | |
| Emerson | 0051 | 0111 | 0121 | 0141 | 0151 | 0161 | |
| | 0201 | 0211 | 0351 | 0381 | 0431 | 0521 | |
| | 0561 | 0571 | 0621 | 0691 | 1241 | 1291 | |
| | 1371 | 1561 | 2481 | 4871 | | | |
| Fisher | 0251 | 0401 | 0431 | 1151 | 2451 | 2461 | |
| | 0001 | 0041 | 0051 | 0091 | 0181 | 0321 | |
| | 0371 | 0391 | 0591 | 0621 | 0711 | 0741 | |
| | 1041 | 1471 | 1521 | 2481 | 4691 | 4881 | |
| | 4891 | | | | | | |
| GE | | | | | | | |

| Brand name | Brand code | | | | | | |
|------------|------------|------|------|------|------|------|--|
| Goldstar | 0051 | 0061 | 0161 | 0231 | 0451 | 0501 | |
| | 0621 | 0661 | 0771 | 0961 | 1431 | 1561 | |
| | 2491 | | | | | | |
| Hitachi | 0031 | 0051 | 0161 | 0191 | 0301 | 0601 | |
| | 0621 | 0641 | 0671 | 0811 | 0821 | 0951 | |
| | 1011 | 1061 | 1241 | 1361 | 1651 | 1711 | |
| | 1731 | 1741 | 1751 | 1761 | 2041 | 2051 | |
| | 2131 | 2381 | 4121 | 4731 | 4901 | 4911 | |
| Infinity | 4921 | 4931 | 4941 | 4951 | 4961 | 5631 | |
| | 0631 | | | | | | |
| JBL | 0631 | | | | | | |
| | 0101 | 0161 | 0191 | 0241 | 0331 | 0511 | |
| JVC | 0561 | 0601 | 0741 | 0991 | 1321 | 1421 | |
| | 2161 | 2171 | 4341 | 4351 | 4701 | 4711 | |
| | 4721 | 4741 | 4751 | 4761 | 4771 | 4781 | |
| | 4791 | 4801 | 4811 | 4971 | 4981 | 4991 | |
| | 5001 | 5011 | 5021 | 5031 | 5041 | 5051 | |
| | 5061 | 5071 | 5081 | 5091 | 5101 | 5111 | |
| | 5121 | 5131 | 5141 | 5151 | 5161 | 5171 | |
| | 5181 | 5191 | 5201 | | | | |
| | | | | | | | |
| | | | | | | | |

(Continued)

Preparation of the remote control (Continued)

| Brand name | Brand code | | | | | |
|-----------------------|------------|------|------|------|------|------|
| LXI | 0311 | 0391 | 0411 | 0431 | 0621 | 0631 |
| | 0881 | 1041 | 1171 | 1521 | 2491 | |
| Maganvox | 0051 | 0271 | 0291 | 0341 | 0361 | 0421 |
| | 0551 | 0621 | 0631 | 0661 | 0971 | 0981 |
| | 1131 | 2221 | 5221 | 5231 | 5241 | |
| Marantz | 0051 | 0481 | 0621 | 0631 | 0641 | 2491 |
| Memorex | 0081 | 0431 | 0501 | 0621 | 2491 | 4421 |
| | 5251 | | | | | |
| MGA | 0051 | 0251 | 0261 | 0371 | 0501 | 0621 |
| | 0661 | 0761 | | | | |
| Mitsubishi | 0051 | 0251 | 0261 | 0281 | 0371 | 0491 |
| | 0501 | 0621 | 0661 | 0761 | 2231 | 2241 |
| | 5261 | 5271 | | | | |
| MTC | 0051 | 0501 | 0621 | 0851 | | |
| NAD | 0311 | 0411 | 0621 | 0881 | 1061 | |
| Optonica | 0541 | 1101 | | | | |
| Panasonic | 0631 | 0711 | 0741 | 1271 | 1351 | 1401 |
| | 1501 | 1701 | 1791 | 1801 | 2111 | 2151 |
| | 2301 | 2321 | 4101 | 5281 | 5291 | 5301 |
| | 5311 | 5321 | 5331 | 5341 | 5351 | 5361 |
| | 5371 | 5381 | 5391 | 5661 | | |
| Philco | 0051 | 0161 | 0271 | 0291 | 0361 | 0421 |
| | 0501 | 0551 | 0621 | 0631 | 0661 | 0711 |
| Philips | 0051 | 0161 | 0271 | 0321 | 0361 | 0421 |
| | 0461 | 0551 | 0631 | 0661 | 0711 | 2141 |
| | 2351 | 5401 | 5411 | 5421 | 5431 | 5451 |
| | 5461 | 5471 | 5481 | 5491 | 5501 | 5531 |
| | 5541 | 5551 | 5601 | 5621 | | |
| Pioneer | 0051 | 0621 | 0681 | 0721 | 0751 | 1061 |
| | 1241 | 1581 | 1971 | 4081 | 4111 | |
| Proton | 0051 | 0161 | 0621 | 0651 | 2491 | |
| Quasar | 0711 | 0741 | 0801 | 1401 | 2281 | 5651 |
| | 5661 | | | | | |
| Radio Shack | 0431 | 1521 | 2481 | | | |
| Radio Shack/Realistic | 0051 | 0161 | 0381 | 0391 | 0431 | 0541 |
| | 0621 | 1431 | 1561 | | | |
| RCA | 6641 | 0001 | 0051 | 0221 | 0391 | 0501 |
| | 0621 | 0661 | 0711 | 0871 | 0911 | 0921 |
| | 0941 | 1001 | 1041 | 1071 | 1091 | 1181 |
| | 1211 | 1241 | 1301 | 1461 | 1491 | 1521 |
| | 1531 | 2291 | 2481 | 4361 | 5671 | 5681 |
| | 5691 | 5701 | 5711 | 5721 | | |





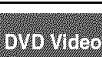

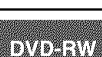
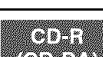
| Brand name | Brand code | | | | | |
|------------|------------|------|------|------|------|------|
| Realistic | 0431 | 1521 | | | | |
| Runco | 0011 | | | | | |
| Samsung | 0051 | 0161 | 0501 | 0531 | 0621 | 0661 |
| | 0851 | 0931 | 1021 | 1141 | 1431 | 1561 |
| | 1591 | 1601 | 1771 | 1811 | 1821 | 1831 |
| | 1841 | 1851 | 1861 | 1931 | 2081 | 2101 |
| | 2311 | 4011 | 4061 | 5731 | | |
| Sanyo | 0051 | 0261 | 0401 | 0431 | 0791 | 0901 |
| | 1151 | 2461 | | | | |
| Sears | 0051 | 0151 | 0191 | 0251 | 0311 | 0331 |
| | 0391 | 0401 | 0411 | 0431 | 0621 | 0661 |
| | 0881 | 1041 | 1081 | 1151 | 1481 | 1521 |
| | 2461 | 2481 | | | | |
| Sharp | 0051 | 0111 | 0161 | 0351 | 0541 | 0581 |
| | 0611 | 0621 | 0731 | 0891 | 1101 | 1561 |
| | 1721 | 1871 | 1881 | 1941 | 2181 | 2341 |
| | 5741 | 5751 | 5761 | 5771 | | |
| Sony | 0441 | 1111 | 1231 | 1511 | 2401 | 2411 |
| | 2431 | 1891 | 1901 | 2061 | 2421 | 5781 |
| | 5791 | 5801 | 5811 | 5821 | 5831 | 5841 |
| | 5851 | 5861 | 5871 | 5881 | 5891 | 5901 |
| | 5911 | | | | | |
| Soundesign | 0051 | 0151 | 0381 | 0551 | 0621 | 2481 |
| Sylvania | 0051 | 0071 | 0271 | 0291 | 0341 | 0361 |
| | 0421 | 0551 | 0621 | 0631 | 0661 | 0861 |
| | 1441 | 2191 | 2201 | 4151 | 4441 | 5921 |
| | 5931 | | | | | |
| Tandy | 1101 | | | | | |
| Technics | 0741 | | | | | |
| Teknika | 0051 | 0081 | 0151 | 0161 | 0191 | 0341 |
| | 0381 | 0471 | 0501 | 0551 | 0621 | 0851 |
| | 1271 | 1401 | 1561 | 2481 | | |
| Wards | 0051 | 0081 | 0141 | 0151 | 0181 | 0211 |
| | 0271 | 0321 | 0341 | 0361 | 0391 | 0421 |
| | 0501 | 0541 | 0621 | 0631 | 0661 | 1051 |
| | 1521 | 2491 | | | | |
| Zenith | 0011 | 0051 | 0081 | 0781 | 1281 | 1571 |
| | 2091 | 2211 | 2251 | 2361 | 2391 | 2441 |
| | 4821 | 4831 | 4841 | 4851 | 6151 | 6161 |
| | 6171 | 6181 | | | | |

Hint on reading this manual

Icons for function applicability

The following icons are used in this manual to indicate features and/or functions that are applicable to various types of discs.

(For disc compatibility information, see  page 28.)

| Icon | Disc | Icon | Disc |
|---|-----------------------|---|----------------------|
|  | HD DVD video disc |  | DVD-R |
|  | HD DVD-R (Video mode) |  | Audio CD |
|  | DVD video disc |  | CD-RW (CD-DA format) |
|  | DVD-RW |  | CD-R (CD-DA format) |

Instructions and actual buttons

Most instructions are based on remote control operation, unless otherwise noted. You can use the buttons on the remote control and those on the main unit as well when they have the same function. Some functions are available only from the remote control.

2 Connections

Connect your player to your A/V system.

Connecting to a TV

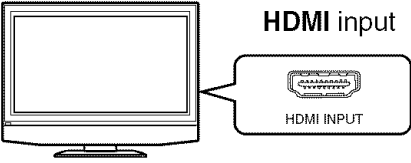
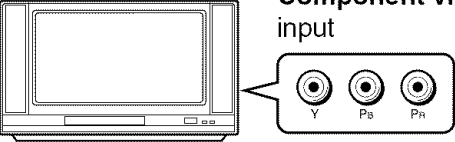
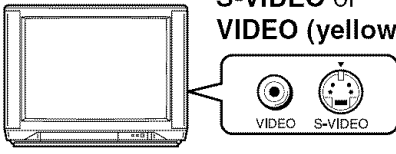
Connecting to an audio system

Connecting to a TV

Connect the player to your TV to view pictures. Follow the steps 1 to 3 below to make your connection.

Step 1 Check the type of video input on your TV.

To view 480p, 720p, 1080i pictures, use the HDMI OUTPUT jack or the COMPONENT OUTPUT jacks to connect to a TV. Some discs may require use of the HDMI OUTPUT jack for viewing of high resolution material.

| TV input | High definition video | Page |
|--|---|------|
|  <p>HDMI input</p> <p>Most recommended*</p> | Viewable. | 21 |
|  <p>Component video input</p> | Viewable. (Some discs may be down converted or require HDMI connection.) | 22 |
|  <p>S-VIDEO or VIDEO (yellow) input</p> | Down converted. (Some discs may require HDMI or component video connection.) | 22 |

*Why HDMI connection is most recommended?

HD DVD and DVD video disc creators have the option to include copy protection instructions in their discs that prohibit the output of some standard video or high definition video (original 720p or 1080i or up-converted 480i or 480p) from the COMPONENT OUTPUT jacks. If such instructions are present in the disc you are playing, you must use the HDMI OUTPUT jack to view the disc in a high definition format and the COMPONENT OUTPUT jacks, if activated, will output video only in 480i or 480p resolution.

Caution on connection

- Do not power this player using any power cord other than the one supplied with this player.
- Do not use the supplied power cord with any device other than this player.

Notes on connection

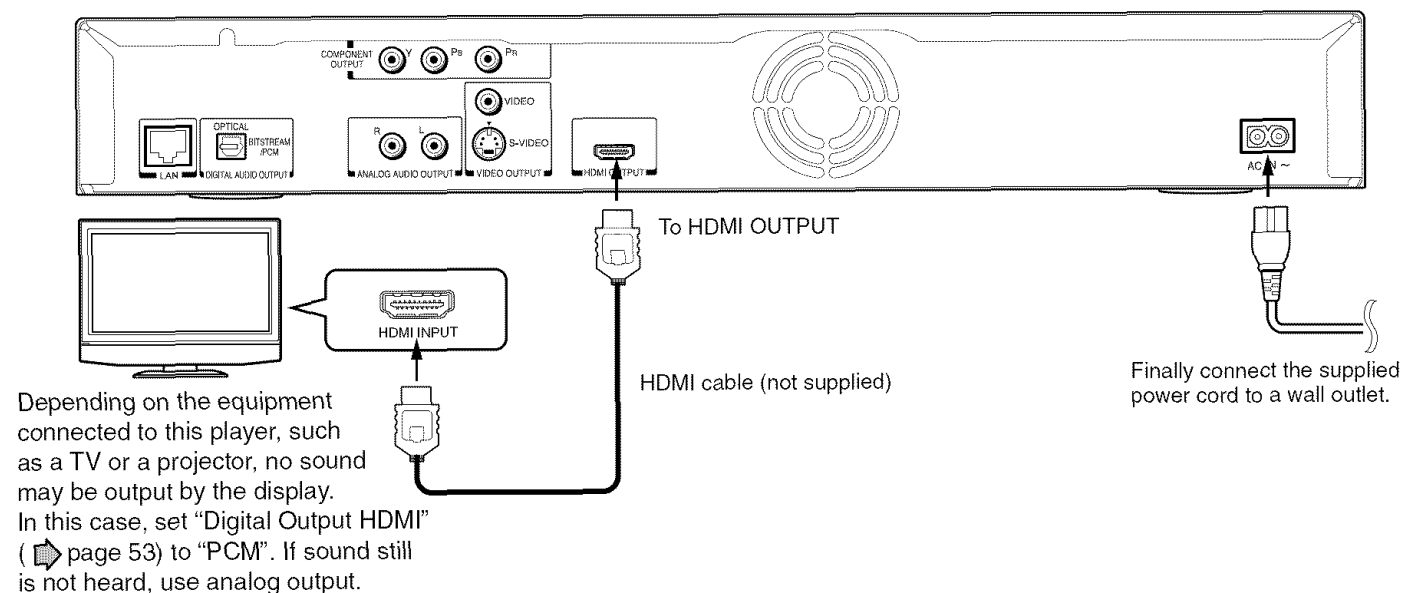
- When you connect the player to your TV, be sure to turn off the power and unplug both units from the wall outlet before making any connections.
- Connect the player directly to your TV. If you connect the player to a VCR, TV/VCR combination, video selector or AV amplifier, the playback picture may be distorted due to copy protection.

Step 2 Connect the player to your TV.

Via HDMI input

HDMI stands for High Definition Multimedia Interface. HDMI transfers digital audio and uncompressed digital video on a single cable. As a result, audio cables and video cables don't need to be connected separately to a device.

The HDMI OUTPUT jack is designed to HDMI Version 1.2a.



If you use both the HDMI OUTPUT jack and the COMPONENT OUTPUT jacks simultaneously, video output from the player to the TV connected via the COMPONENT OUTPUT jacks may be cut depending on the disc.

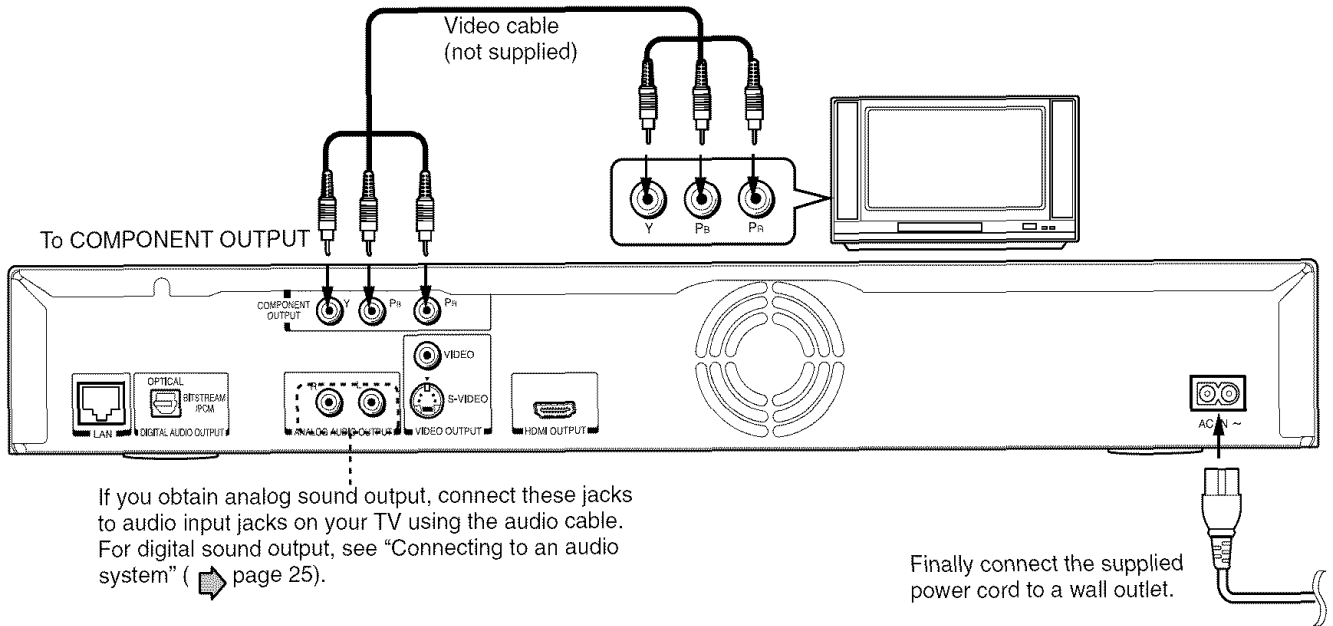
HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

After completing the connection, proceed to ▶ page 23 to make the setting.

Notes

- Refer to the owner's manual for the TV to be connected to this player for more information concerning HDMI connections.
- When the HDMI connection is not verified, the error message appears on the front panel display. In this case, disconnect the HDMI cable then connect it again, or turn off the connected HDMI device then turn it on.
- HDMI output is digital only, DVI analog is not supported.
- HDMI is an evolving technology, so it is possible that some devices may not operate properly with this player.
- Be sure to use an HDMI cable with the HDMI logo (**HDMI**) to connect an HDMI device.
- If your display does not support multi-channel audio, to use multi-channel audio you will need to either use an AV receiver that supports multi-channel audio over HDMI (set "Digital Output HDMI" to "Auto" or to match the decoding capability of your equipment) or use a receiver that has an optical SPDIF digital audio input (set "Digital Output SPDIF" to match the decoding capability of your equipment).
- If you use also the ANALOG AUDIO OUTPUT jacks or the DIGITAL AUDIO OUTPUT BITSTREAM/PCM jack to obtain sounds, the output level from these jacks will be reduced when playing a disc recorded in multi channel while setting "Digital Output HDMI" (▶ page 53) to "Auto" or "PCM". In this case, the output level will be restored by setting to "Downmixed PCM".

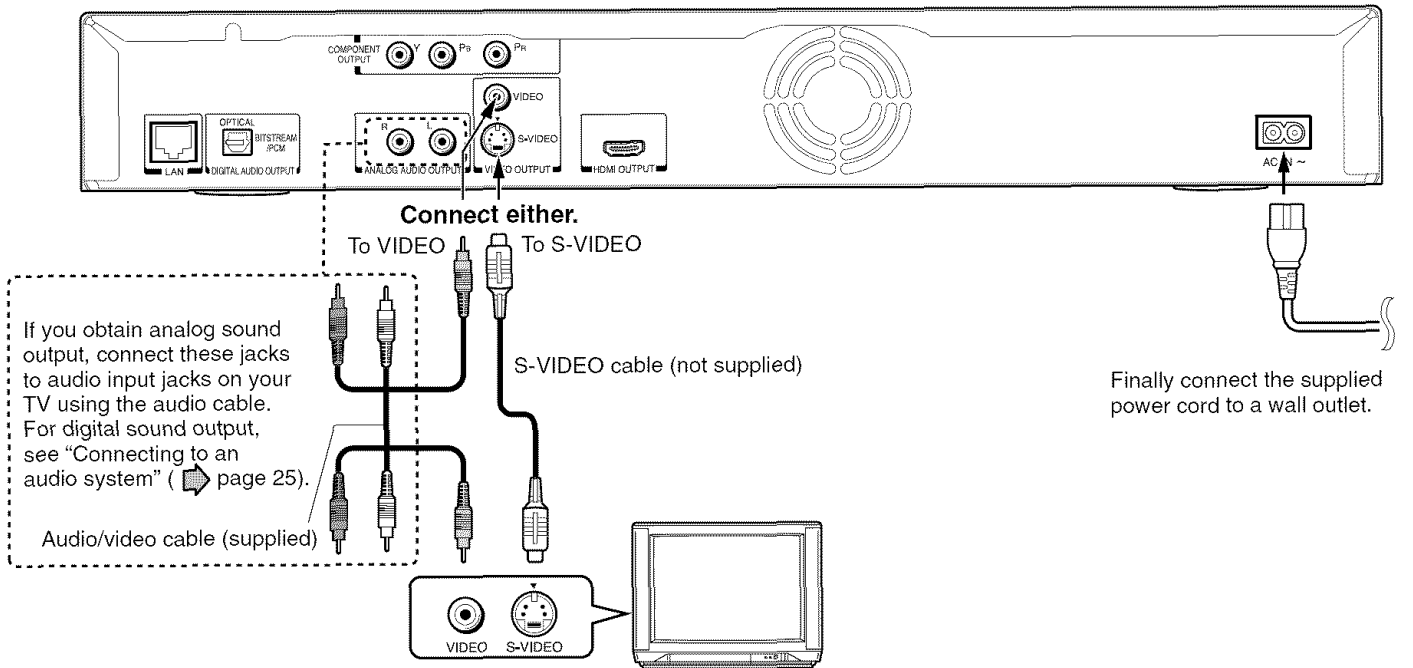
Via component video input



If you use both the HDMI OUTPUT jack and the COMPONENT OUTPUT jacks simultaneously, video output from the player to the TV connected via the COMPONENT OUTPUT jacks may be cut depending on the disc.

After completing the connection, proceed to ▶ page 23 to make the setting.

Via S-VIDEO or VIDEO (yellow) input



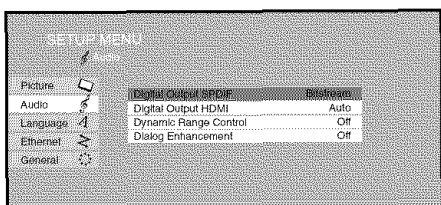
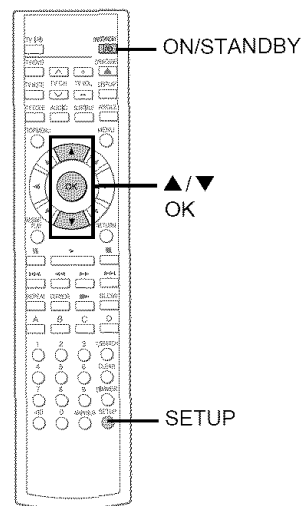
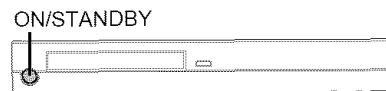
After completing the connection, proceed to ▶ page 23 to make the setting.

Step 3

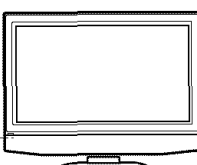
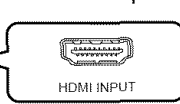
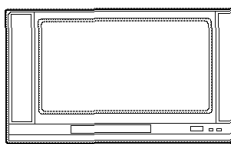
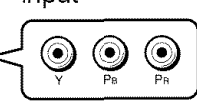
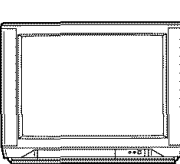
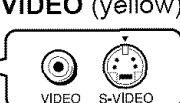
Make the necessary setting.

Setting of video output resolution of this player

- 1 Turn on the connected TV and select the input from the player.
- 2 Press **ON/STANDBY** to turn on the player (➡ page 30).
- 3 Press **SETUP** to display “SETUP MENU”, if not displayed.



- 4 Press **▲ / ▼** to select “Picture” then press **OK**.
- 5 Press **▲ / ▼** to select “Resolution Setting”, then press **OK**.
- 6 Press **▲ / ▼** to select the resolution according to the performance of your TV as shown in the table below.



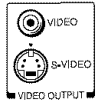
| TV input | “Resolution Setting” | | | | | | | | | | | | | | | | |
|---|--|-------------|-------------|------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|
|  <p>HDMI input</p>  | <p>Select “up to 1080i”.</p> <table border="1"> <tr><td>up to 480i</td></tr> <tr><td>up to 480p</td></tr> <tr><td>up to 720p</td></tr> <tr><td>up to 1080i</td></tr> </table> | up to 480i | up to 480p | up to 720p | up to 1080i | | | | | | | | | | | | |
| up to 480i | | | | | | | | | | | | | | | | | |
| up to 480p | | | | | | | | | | | | | | | | | |
| up to 720p | | | | | | | | | | | | | | | | | |
| up to 1080i | | | | | | | | | | | | | | | | | |
|  <p>Component video input</p>  | <p>Select the resolution according to the performance of the connected TV.</p> <table border="1"> <tr> <td>up to 480i</td> <td>up to 480i</td> <td>up to 480i</td> <td>up to 480i</td> </tr> <tr> <td>up to 480p</td> <td>up to 480p</td> <td>up to 480p</td> <td>up to 480p</td> </tr> <tr> <td>up to 720p</td> <td>up to 720p</td> <td>up to 720p</td> <td>up to 720p</td> </tr> <tr> <td>up to 1080i</td> <td>up to 1080i</td> <td>up to 1080i</td> <td>up to 1080i</td> </tr> </table> | up to 480i | up to 480i | up to 480i | up to 480i | up to 480p | up to 480p | up to 480p | up to 480p | up to 720p | up to 720p | up to 720p | up to 720p | up to 1080i | up to 1080i | up to 1080i | up to 1080i |
| up to 480i | up to 480i | up to 480i | up to 480i | | | | | | | | | | | | | | |
| up to 480p | up to 480p | up to 480p | up to 480p | | | | | | | | | | | | | | |
| up to 720p | up to 720p | up to 720p | up to 720p | | | | | | | | | | | | | | |
| up to 1080i | up to 1080i | up to 1080i | up to 1080i | | | | | | | | | | | | | | |
|  <p>S-VIDEO or VIDEO (yellow) input</p>  | <p>No need to set.</p> | | | | | | | | | | | | | | | | |

- Refer to the table on the next page for actual resolution of the player par each setting.
- For best output, disc’s native resolution is also important. See the note on ➡ page 24.

- 7 Press **OK**.
- 8 Press **SETUP** to turn off “SETUP MENU”.

The necessary setting is complete. Now your player is ready. Proceed to ➡ page 30 to begin your operation.

■ Output resolution of the player

| Output jacks on the player | Disc's resolution | “Resolution Setting” (▶ page 23) | | | |
|--|-------------------|----------------------------------|------------------------------|------------------------------|-------------------------------|
| | | up to 480i | up to 480p | up to 720p | up to 1080i |
| HDMI OUTPUT jack  | 480i | 480i | 480p (maximum) ^{1*} | 720p (maximum) ^{1*} | 1080i (maximum) ^{1*} |
| | 480p | 480i | 480p (maximum) ^{1*} | 720p (maximum) ^{1*} | 1080i (maximum) ^{1*} |
| | 720p | 480i | 480p (maximum) ^{1*} | 720p (maximum) ^{1*} | 1080i (maximum) ^{1*} |
| | 1080i | 480i | 480p (maximum) ^{1*} | 720p (maximum) ^{1*} | 1080i (maximum) ^{1*} |
| COMPONENT OUTPUT jacks  | 480i | 480i | 480p ^{2*} | 720p ^{2*} | 1080i ^{2*} |
| | 480p | 480i | 480p ^{2*} | 720p ^{2*} | 1080i ^{2*} |
| | 720p | 480i | 480p ^{2*} | 720p ^{2*} | 1080i ^{2*} |
| | 1080i | 480i | 480p ^{2*} | 720p ^{2*} | 1080i ^{2*} |
| S-VIDEO jack / VIDEO jack  | 480i | 480i | | | |
| | 480p | | | | |
| | 720p | | | | |
| | 1080i | | | | |

^{1*} Maximum of the player's actual resolution according to a connected HDMI TV. The order of precedence is 1080i>720p>480p>480i. For example, if “up to 1080i” is set and the connected TV cannot receive 1080i resolution, the player automatically lower its output resolution to 720p, if not still received, to 480p, then 480i.

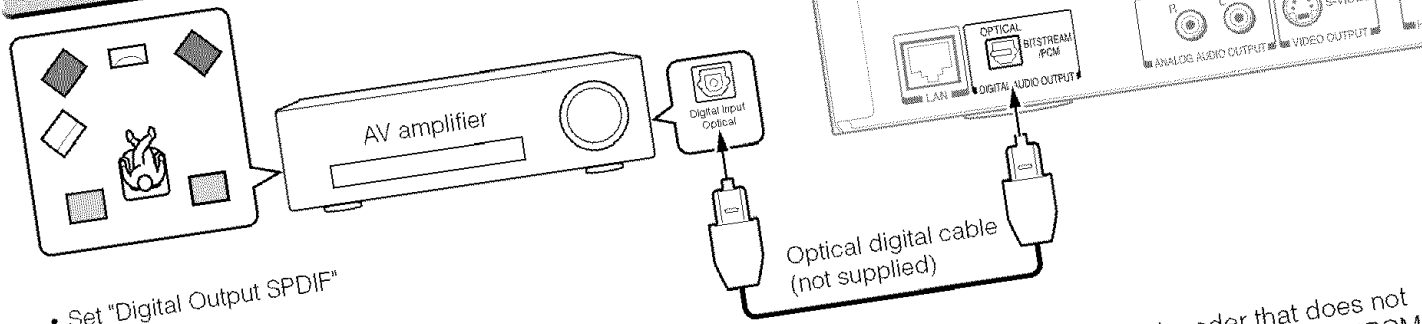
^{2*} Fixed. However, when an HDMI TV is also connected to the player, the player will select resolution in the same manner as in HDMI connection, i.e., ^{1*}.

Important information about setting and output resolution for HD performance (HDMI OUTPUT and COMPONENT OUTPUT)

To achieve high definition output when playing high definition material, it is necessary to set the output resolution of the player to match the native resolution of the disc. For example, when playing a disc with a native resolution of 720p, set the player output to 720p. For a disc with native resolution of 1080i, set the player to 1080i. Make sure that your HDTV or HD monitor input resolution will match the resolution you select for the player. In some cases such as with Toshiba HDTVs and HD displays, your HDTV or HD monitor will automatically switch input resolutions to match the output you select for the player. In other cases, a change in setting of the HDTV or HD display will be necessary. Please see owner's manual of your HDTV or HD monitor for details. If the disc does not provide information concerning its native resolution, you may need to try all HD output modes to determine which provides high definition playback.

You can enjoy multichannel Dolby® Digital and DTS® sound.

Via digital audio output

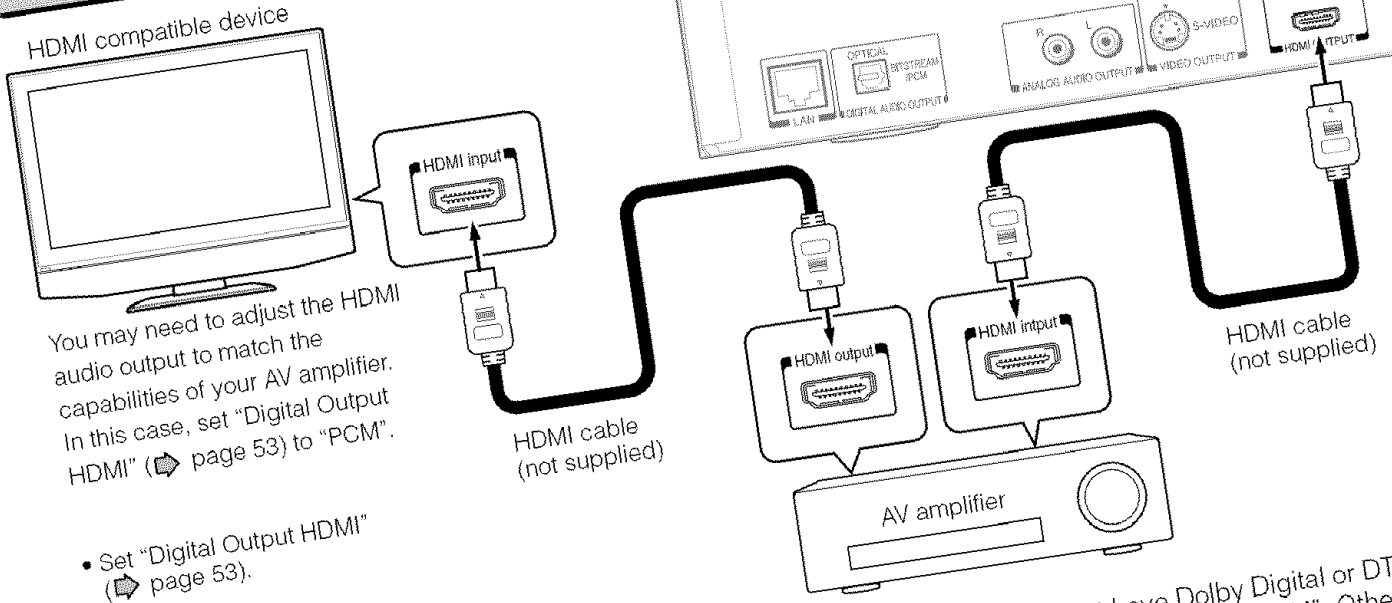


- Set "Digital Output SPDIF" (➡ page 53).

Caution

- When you are connecting (via the DIGITAL AUDIO OUTPUT BITSTREAM/PCM jack) an AV decoder that does not have Dolby Digital, DTS or MPEG decoding capability, be sure to set "Digital Output SPDIF" (➡ page 53) to "PCM". Otherwise, high volume sound may damage your hearing as well as the speakers.

Via HDMI output



HDMI compatible device

You may need to adjust the HDMI audio output to match the capabilities of your AV amplifier. In this case, set "Digital Output HDMI" (➡ page 53) to "PCM".

- Set "Digital Output HDMI" (➡ page 53).

Caution

- When you are connecting (via the HDMI OUTPUT jack) an AV decoder that does not have Dolby Digital or DTS decoding capability, be sure to set "Digital Output HDMI" (➡ page 53) to "PCM" or "Downmixed PCM". Otherwise, high volume sound may damage your hearing as well as the speakers.

Note about audio capabilities

- Dolby Digital Plus and DTS-HD (DTS core only) capability limited to 5.1 channels.
- DTS-HD processing of DTS core only. Full DTS-HD is not supported.

Playback (Basic)
 Playback (Advanced)
 Internet connectivity
 Other



Connecting to an audio system (Continued)

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Manufactured under license from Digital Theater Systems, Inc. U.S. Pat. No's. 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,226,616; 6,487,535 and other U.S. and world-wide patents issued and pending. "DTS" and "DTS Digital Surround" are registered trademarks of Digital Theater Systems, Inc. Copyright 1996, 2003 Digital Theater Systems, Inc. All Rights Reserved.

3 Playback (Basic)

Play your favorite disc.

Disc compatibility






Powering on/Loading a disc

Playing a disc




Playing at various speeds

Disc compatibility

Pre-recorded discs


| Disc | Specification |
|--|---|
| HD DVD video disc  | <ul style="list-style-type: none"> • 12cm (4³/₄ in.)/ 8cm (3¹/₄ in.) |
| DVD video disc  | <ul style="list-style-type: none"> • 12cm (4³/₄ in.)/ 8cm (3¹/₄ in.) • Region number 1 or ALL <p>The region number of this HD DVD player is 1. If region numbers, corresponding to a specific playable area, are printed on your DVD video disc and you do not find  or , or the disc is encoded to permit playback only in regions other than Region 1, disc playback will not be allowed by the player.</p> |
| Audio CD  | <ul style="list-style-type: none"> • 12cm (4³/₄ in.)/ 8cm (3¹/₄ in.) |

Recordable discs you can play on this player

| Disc | Specification |
|--|--|
| HD DVD-R  | <ul style="list-style-type: none"> • HDVideo mode recording *Finalized discs only. |
| DVD-RW  Except Ver. 1.0 | <ul style="list-style-type: none"> • DVD VR mode recording (CPRM compatible discs will be available in the future by software update.) • DVD Video mode recording *Finalized discs only. |
| DVD-R  DVD-R For DL | <ul style="list-style-type: none"> • DVD VR mode recording (CPRM compatible discs will be available in the future by software update.) • DVD Video mode recording • 4.7GB For General *Finalized discs only. |

| Disc | Specification |
|-------|---|
| CD-RW | <ul style="list-style-type: none"> • CD-DA (audio CD) format *Finalized discs only. |
| CD-R | <ul style="list-style-type: none"> • CD-DA (audio CD) format *Finalized discs only. |

Notes

- Because HD DVD is a new format, disc compatibility issues with new and existing format discs are possible. Not all discs are compatible. If you experience compatibility problems, please contact Toshiba Customer Service. See  page 8 for more information about disc compatibility.
- This player can play pictures of the NTSC color system only.
- You cannot play non-standardized discs even if they may be labeled as above.
- Discs other than the above cannot be played. Even some of the above discs may not be able to be played depending on their state.
- Blu-ray Discs cannot be played on this player.




is a trademark of DVD Format/Logo Licensing Corporation.

Compatibility notes

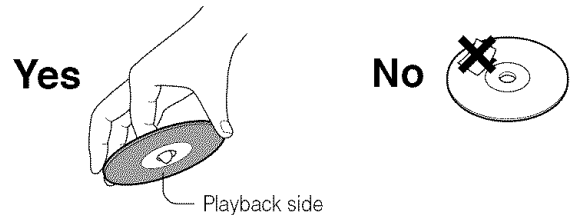
- Because HD DVD is a new format, certain disc, digital connection and other compatibility issues are possible. If you experience compatibility problems, please contact Toshiba Customer Service.
- Viewing high-definition content and up-converting standard DVD content may require an HDMI-capable input or HDCP-capable DVI input on your display device.
- Some HD DVD discs and DVD discs may restrict the use of some operation commands or features.
- Dolby Digital Plus and DTS-HD (DTS core only) capability limited to 5.1 channels.
- DTS-HD processing of DTS core only. Full DTS-HD is not supported.
- Dolby TrueHD processing of 48kHz in 5.1 channels, 96kHz/192kHz in 2 channels.
- Some DVD-R/DVD-RW and CD-R/CD-RW discs may be incompatible due to laser pick-up and disc design.
- CD-R/CD-RW discs must be recorded using CD-DA method for CD audio playback.
- The included remote control may not operate some or all features of your TV or monitor, so it may be necessary to use your original remote control.
- Certain features are subject to delayed availability.
- This product includes memory that is used to store some disc related information, including downloaded on-line content. The disc you are using will control how long this information is retained.

Note

- The firmware in this player can be updated. See  page 58 for details.

On handling discs

- Do not touch the playback side of the disc.
- Do not stick paper or tape to discs.



On cleaning discs

- Fingerprints and dust on the disc cause picture and sound deterioration. Wipe the disc from the center outwards with a soft cloth. Always keep the disc clean.





- Do not use any type of solvent such as thinner, benzene, commercially available cleaners or antistatic spray for vinyl LPs. It may damage the disc.
- Refer to the instructions of the disc as well.

On storing discs

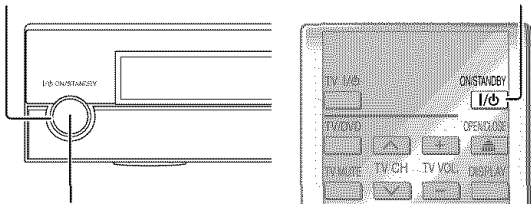
- Do not store discs in a place subject to direct sunlight or near heat sources.
- Do not store discs in places subject to moisture and dust such as a bathroom or near a humidifier.
- Store discs vertically in a case. Stacking or placing objects on discs outside of their case may cause warping.
- Refer to the instructions of the disc as well.

Powering on/Loading a disc

Turning the power on

- 1** Press  (front panel) or  (remote control).

ON/STANDBY indicator ON/STANDBY button



ON/STANDBY button


When the power turns on, ON/STANDBY indicator on the front panel changes color from red (standby mode) to green (operation).

Start up (and disc loading (see below)) may take time. Wait a while.

Turning the power off

- 1** Press **ON/STANDBY**.



The power turns off and ON/STANDBY indicator on the front panel turns red (standby mode).

When you power on this player for the first time, the setting screen will appear. Please refer to  page 50 and select "General" > "Clock Set". Check the date and time are set properly and correct them if necessary. When complete, press SETUP to exit. Your player is ready.

Note

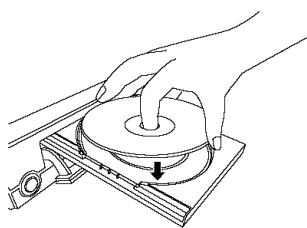
- If the player freezes for about 15 minutes or more and will not respond to any buttons, holding down ON/STANDBY button on the front panel for about 10 seconds can force the player to turn off. However, this is an emergency measure, which may cause damage to the player. Avoid casual use of this measure.

Loading a disc

- 1** Press  (front panel) or  (remote control).

The player opens the disc tray.

- 2** Place a disc in the hollow of the disc tray with the playback side down.



When using a double-sided disc, turn the label of the playing side up.

After placing a disc, press OPEN/CLOSE.

Notes

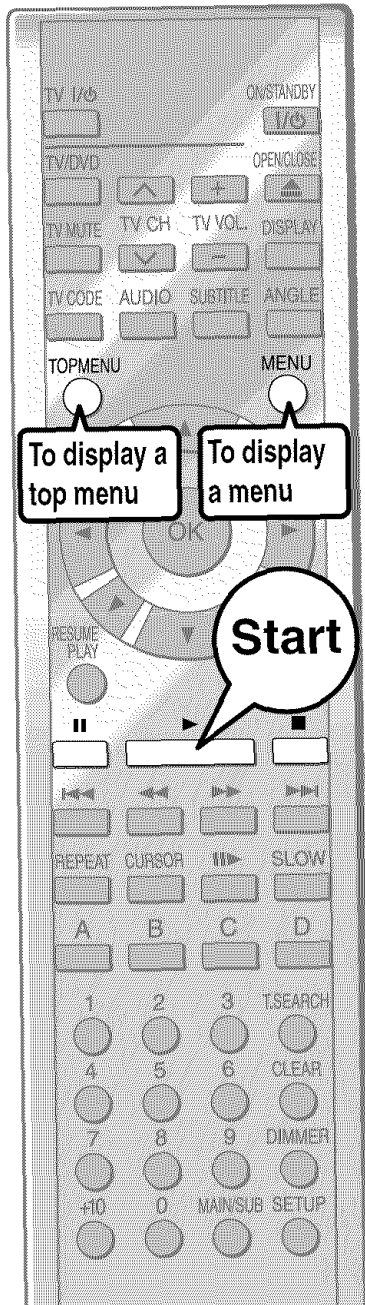
- Use the button on the front panel or the remote control to open and close the disc tray. Do not push or hold the disc tray while it is moving. Doing so may cause the player to malfunction.
- Do not load a disc which is unplayable, or any object other than a playable disc.
- Do not apply downforce to the disc tray. Doing so may cause the player to malfunction.
- If the disc tray stops while closing, the mechanical protection system of this player will open it. Do not force it to close. Doing so may damage the disc tray.
- If the disc tray will not open, turn the player off, and press OPEN/CLOSE on the front panel. This may turn the player on and open the disc tray. If it still won't open, contact your nearest TOSHIBA dealer.

Playing a disc

| | | |
|------------------|-----------------|-----------|
| HD DVD | HD DVD-R | DVD-Video |
| DVD-RW | DVD-R | CD |
| CD-RW (CD-DA) | CD-R (CD-DA) | |

Preparation

- 1 Turn on the TV or audio system and select the corresponding input source that the player is connected to.
- 2 Turn the power on. (➡ page 30)



1

Load a disc and close the disc tray.

(➡ page 30)

Playback starts.

● If playback does not start

Press .

HD DVD DVD-Video

If a loaded disc contains a top menu, a top menu appears when you start playback.

Depending on the disc, you may need to press or to display a top menu.

("Playing from the top menu", ➡ page 32)

HD DVD-R DVD-RW DVD-R

If a loaded disc contains a title menu, you can display it to select a desired title.

("Playing from a recorded title menu", ➡ page 32)

CD CD-RW (CD-DA) CD-R (CD-DA)

Playback starts automatically.

Stopping playback / Pausing playback

Press .

Playback stops.

During playback, press .

Playback pauses.

To resume, press .

Note

- HD DVD discs or DVD video discs provide high resolution pictures and a lot of information. Because of this, you may notice some fine picture noise on the TV screen, which you have never seen with a regular broadcast TV program. While the amount of noise depends on the TV you use with the player, you should generally reduce the sharpness adjustment on your TV when viewing HD DVD or DVD video discs.



Playing a disc (Continued)

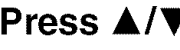
Playing from the top menu

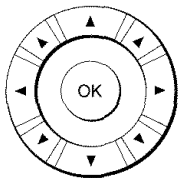
HD DVD DVD-Video

Some discs may include a top menu, on which you can view the structure of contents or select a scene.

1 Press  .

A top menu appears.

2 Press  to select the title you want.



If the titles in the top menu are assigned a number, you can directly locate a specific title by pressing its designated number with the number buttons.

3 Press  .

Playback starts from chapter 1 of the selected title.

Notes

- The instructions above describe basic procedures which may vary depending on the contents of a disc. If different instructions appear on the TV screen, follow those instructions.
- If you display the top menu during playback and press TOP MENU button again without selecting any title, the player may resume playback from the point where you first pressed TOP MENU button (depending on the actual disc.)
- This method of locating a title is available only on a disc that contains a top menu.
- Instruction notes of discs may refer to the button that displays the top menu as TITLE button.
- Depending on a disc, MENU button may have to be pressed instead of TOP MENU button to display the top menu.

Using A/B/C/D buttons

HD DVD

Use these buttons as indicated by the video display during HD DVD disc playback. Depending on the disc contents, the functions of each button may differ.


Playing from a menu in a recorded disc

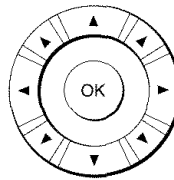
HD DVD-R DVD-RW DVD-R

Discs recorded on personal devices such as DVD recorders may contain menus, on which items can be easily selected.

1 Press  .

Recorded contents are displayed.

2 Press  to select the item you want.

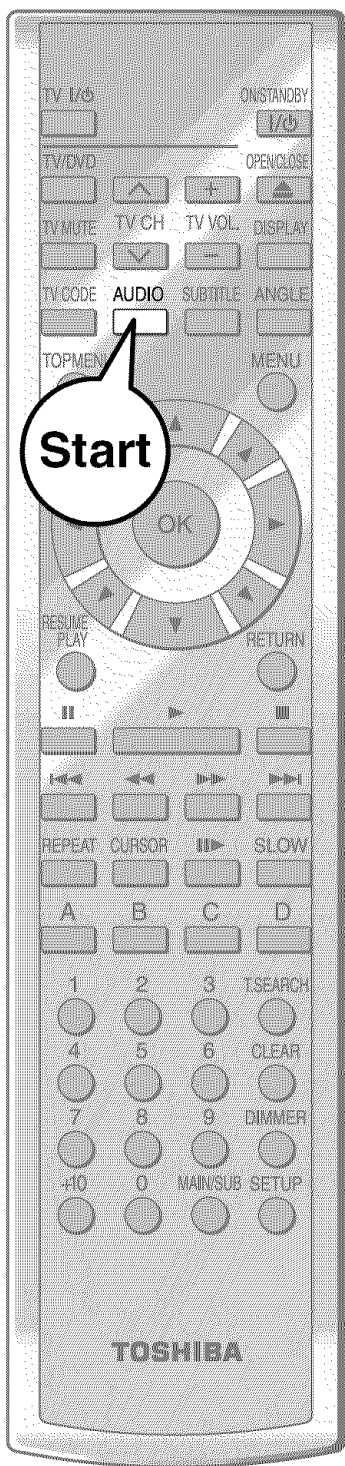


3 Press  .

Playback of the selected item starts.

Notes

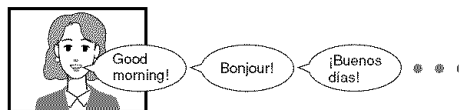
- Disc menus vary depending on the disc or the recording device. Some discs may not contain a disc menu.
- Discs recorded in DVD VR mode display the recorded contents not in thumbnails but in a list. Select an item on the list and press OK button.



Selecting the sound

HD DVD **HD-DVD-R** **DVD-Video** **DVD-RW** **DVD-R**

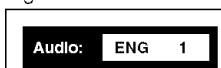
If a disc contains several languages, you can select a preferred language from them to hear.



1

During playback, press **AUDIO**.

e.g.



Language code (➡ page 59)

Some HD DVD video discs may not display this window.

2

Press **AUDIO** while the audio setting is displayed on the TV screen.

Notes

- Some discs allow you to change audio selections only via the disc menu. If this is the case, press MENU button and choose the appropriate language from the selections on the disc menu.
- When you turn on the player or replace a disc, the player returns to the initial default setting (➡ page 54). Depending on a disc, a specific type of audio the disc has is output.

Selecting the sound of a disc recorded in DVD VR mode

DVD-RW **DVD-R** (DVD VR mode)

When playing a disc recorded in DVD VR mode, select the sound as follows.

1

During playback, press **AUDIO**.

- The current audio setting appears.
- The language code appears instead of the language name. Refer to the list of languages and their abbreviations. (➡ page 59)

2

Press **AUDIO** while the audio setting is displayed on the TV screen.

Depending on the disc or the type of broadcast, variation of sound differs.

● **DVD-RW** **DVD-R**

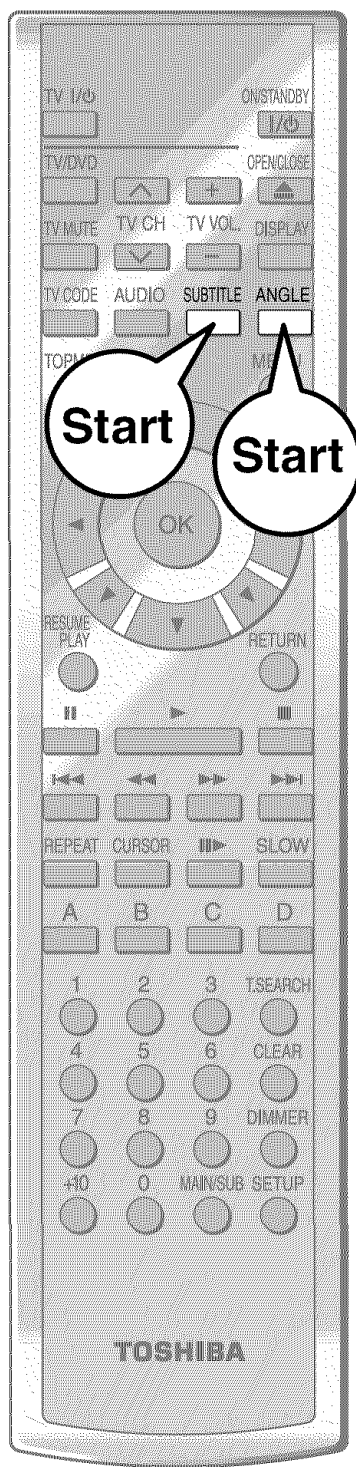
Stereo sound contents

"Stereo" or "LR" (Left main channel and right sub channel) → "L" (Left main channel) → "R" (Right sub channel) → Back to "Stereo" or "LR".

SAP sound contents

"Main" → "Sub" → "Main and Sub" → Back to "Main".

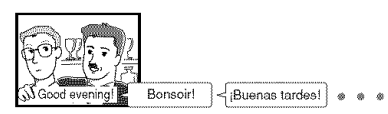
Playing a disc (Continued)



Selecting subtitles

HD DVD DVD-Video

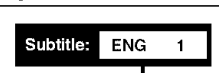
You can display subtitles on the TV and select a subtitle language from those included on the disc.



1 Press **SUBTITLE** during playback.

The current subtitle setting appears.

e.g.



Language code (page 59)

Some HD DVD video discs may not display this window.

2 Press **SUBTITLE** while the subtitle setting is displayed on the TV screen.

Subtitle languages which do not appear in the setting are not included in the disc.

Each time you press **◀▶**, "On" and "Off" alternate. Select "On" to view subtitles.

Notes

- Some discs are set to display subtitles automatically.
- Depending on the scene, subtitles may not appear immediately after you set the subtitle function to on.
- Some discs will allow you to change subtitle languages and turn subtitles on or off only via the disc menu.
- When you turn on the player or replace a disc, the player returns to the initial default setting (page 54). Depending on a disc, a specific type of subtitles the disc has is output.
- Depending on the scene, the subtitle language may not change immediately after selected.

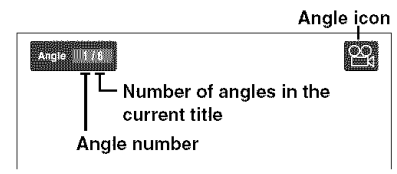
Selecting the camera angle

HD DVD DVD-Video

If the scene was recorded with multiple angles, you can easily change the camera angle of the scene you are watching.

1 Press **ANGLE** while playing a scene recorded with multiple angles.

While playing a scene recorded with multiple angles, the angle icon appears on the TV screen and on the front panel. Press ANGLE button while the angle icon is displayed.



2 While the angle number is displayed, press **ANGLE** repeatedly to select the angle number.

Notes

- You can also change the camera angle during still playback. The camera angle changes to the new setting when you resume normal playback.
- If you pause a picture immediately after changing a camera angle, the resumed playback picture may not display the new camera angle.

Playing at various speeds

| | | |
|------------------|-----------------|-----------|
| HD DVD | HD DVD-R | DVD-Video |
| DVD-RW | DVD-R | CD |
| CD-RW (CD-DA) | CD-R (CD-DA) | |

Skipping chapters or tracks


Playback starts from the beginning of the current chapter or track. When you press twice, playback starts from the beginning of the previous chapter or track.


➔ Page 36

Playing frame by frame



During playback, press .




Picture pauses.

If you press  while a picture is paused, you can play the picture frame by frame.

- To resume normal playback, press .
- Some discs may not permit this operation.

Playing in fast reverse or fast forward

During normal playback, press  / .


-  : Fast reverse playback
-  : Fast forward playback
- Each time you press the button, the playback speed changes.
- To resume normal playback, press .

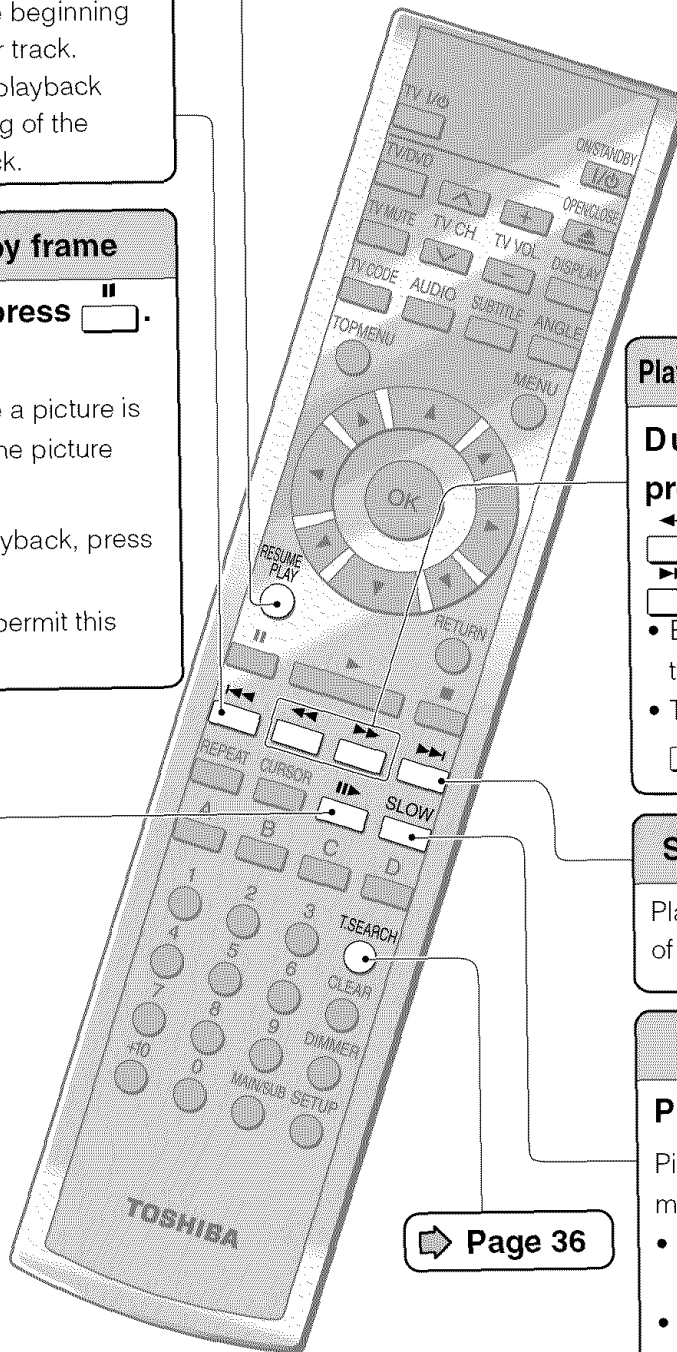
Skipping chapters or tracks

Playback starts from the beginning of the next chapter or track.

Playing in slow-motion

Press  during playback.

- Picture is played forward in slow-motion.
- Each time you press the button, the slow-motion speed changes.
- To resume normal playback, press .
- Not available in CD playback.



➔ Page 36

Playing at various speeds (Continued)

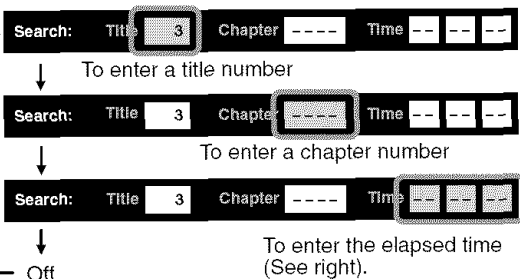
Locating by entering a section number

| | | | | | |
|------------------|-----------------|-----------|--------|-------|----|
| HD DVD | HD DVD-R | DVD-Video | DVD-RW | DVD-R | CD |
| CD-RW (CD-DA) | CD-R (CD-DA) | | | | |

Normally titles, chapters, and tracks are numbered. By entering these numbers, you can access a desired section.

1 Press **T.SEARCH** repeatedly to select the area you want to input.

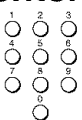
e.g.



- The actual display may vary depending on the disc.

The cursor shifts also by ◀/▶.

2 Press the number buttons to enter a number of the section.



e.g. To enter chapter/track 25:

Press 2, then press 5.

- Pressing CLEAR resets the numbers. To turn off the display, press T.SEARCH several times (depending on the disc).

3 Press **OK**.

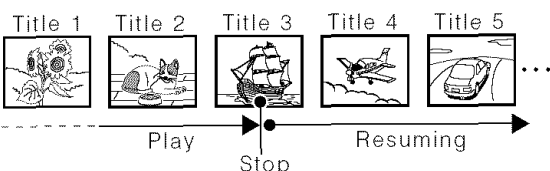
Playback starts from the selected section.

Note

- Some discs may not permit these operations.

Resuming playback from the location last stopped (Title resume)

HD DVD



You can resume playback from the location last stopped.

If you press **RESUME PLAY** after stopping playback, playback starts from the location last stopped.

If you press **□** after stopping playback, the resume feature is canceled.

Locating by entering elapsed time

| | | | | | |
|------------------|-----------------|-----------|--------|-------|----|
| HD DVD | HD DVD-R | DVD-Video | DVD-RW | DVD-R | CD |
| CD-RW (CD-DA) | CD-R (CD-DA) | | | | |

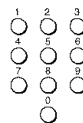
1 Press **T.SEARCH**.

You may have to press repeatedly, depending on a disc. Press the button until the cursor moves to "----" area.

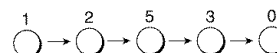
e.g.



2 Press the number buttons to enter the desired time location on the disc.



e.g. To enter 1 hour, 25 minutes, and 30 seconds



- Pressing CLEAR resets the numbers.

3 Press **OK**.

Playback starts from the specified location.

Notes

- Resume feature cannot function when:
 - you select a disc menu language (page 54) or change the parental lock setting (page 56).
 - you open the disc tray.
- There may be a difference in the location where playback resumes depending on the disc.
- It is possible to change the setting from the setup menu while the player retains a location in memory, however, the new setting can be valid only after the player clears the location memory, i.e., starts resume playback.
- Some discs or scenes may not permit this operation.

4 Playback (Advanced)

Playback variations and other functions.

Playing repeatedly (Repeat playback)

Using EXTENSION ports

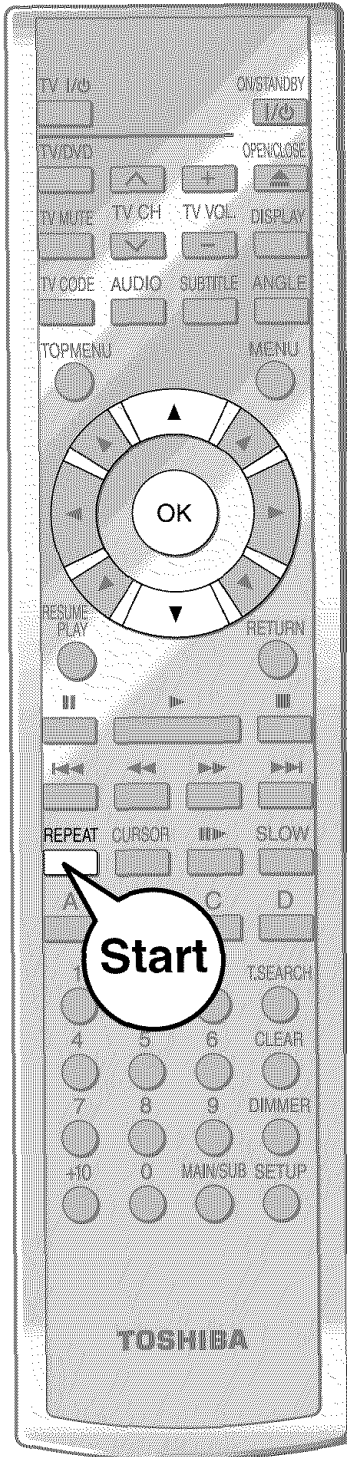
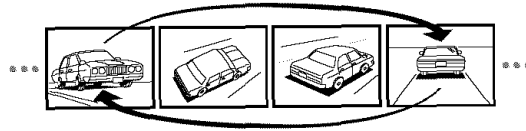
Using the cursor function

Checking the current status and settings

Playing repeatedly (Repeat playback)

| | | |
|------------------|-----------------|-----------|
| | | DVD-Video |
| DVD-RW | DVD-R | CD |
| CD-RW (CD-DA) | CD-R (CD-DA) | |

You can repeat a desired section.



1

Press **REPEAT**.

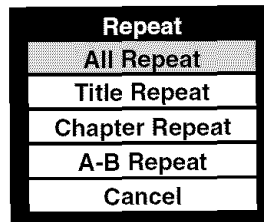
The repeat modes are listed.

2

Press **▲/▼** to select the repeat mode.

(The selections on the list vary depending on category or status of a disc.)

e.g.



All Repeat:

Repeats the entire disc.

(Not available in playback of a disc recorded in DVD VR mode.)

Title Repeat:

Repeats the same title.

Chapter Repeat:

Repeats the same chapter.

Track Repeat:

Repeats the same track.

Disc Repeat:

Repeats the entire disc.

A-B Repeat:

Repeats the specified segment.

Select and press OK.

Perform step 1) and 2) below and skip step 3.



1) While the above display appears, press OK at a start point of a segment where you want to repeat.

The display changes to "B Point".



2) Press OK at an end point of a segment where you want to repeat.

Playback returns to the point A and repeats between A and B.

3

Press **OK**.

Repeat playback starts.

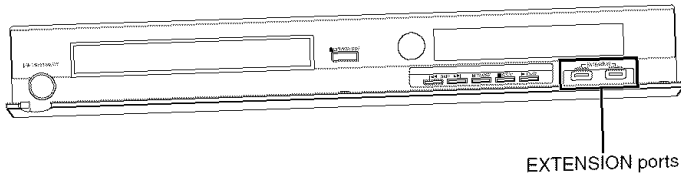
Notes

- Some discs may not permit repeat playback operation.
- You can cancel repeat playback also by pressing **REPEAT**.

Using EXTENSION ports

HD DVD

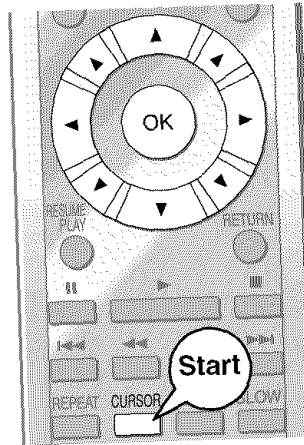
Depending on the features of the disc you are using, you may be able to connect USB game controllers to the EXTENSION ports to use some interactive features. Additional features may be supported in the future.



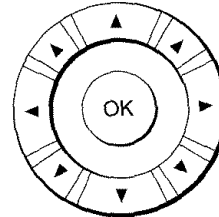
Using the cursor function

HD DVD

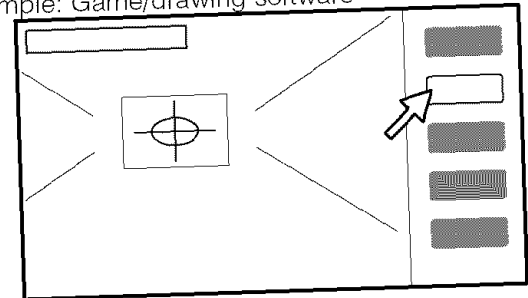
Available commercial HD DVD discs include game software and drawing software. You can use the cursor function for some software.



- 1 Press **CURSOR** while a disc with support for cursor use is playing.
- 2 Use the eight direction buttons to move the cursor.



Example: Game/drawing software

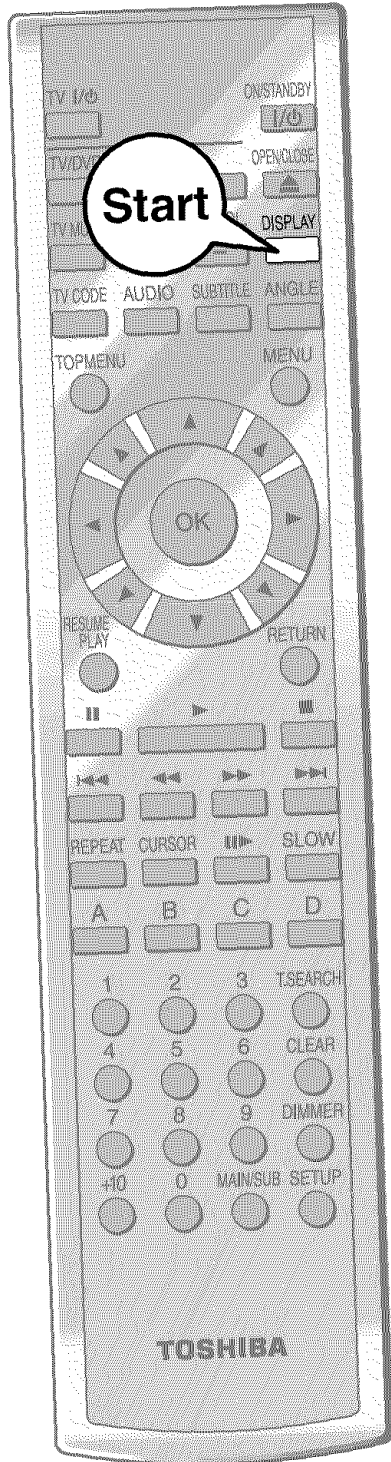


Move the cursor to select the game target or selection item. For details on actual operations, also refer to the operations guide for the disc.

Checking the current status and settings

You can confirm operational status and setting details.

| | | |
|------------------|-----------------|-----------|
| HD DVD | HD DVD-R | DVD-Video |
| DVD-RW | DVD-R | CD |
| CD-RW (CD-DA) | CD-R (CD-DA) | |



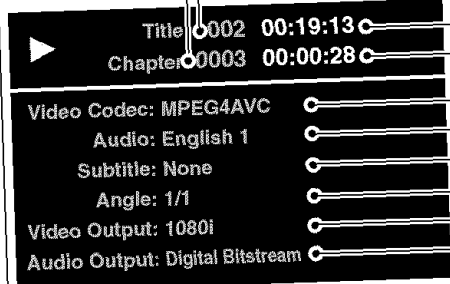
1

Press .

The following on-screen display appears.
(The actual display varies depending on the disc.)

| | | | | |
|--------|----------|-----------|--------|-------|
| HD DVD | HD DVD-R | DVD-Video | DVD-RW | DVD-R |
|--------|----------|-----------|--------|-------|

e.g.

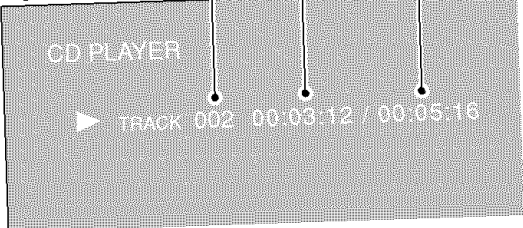


- Chapter number
- Title number
- Elapsed time of a title
- Elapsed time of a chapter
- Video codec
- Language setting
- Subtitle setting
- Angle number
- Definition
- Sound output setting

*The subtitle setting shows a language code (▶ page 59).

| | | |
|----|------------------|-----------------|
| CD | CD-RW (CD-DA) | CD-R (CD-DA) |
|----|------------------|-----------------|

e.g.



- Track number
- Elapsed time of a track
- Total time of a track

5 Internet connection

Connect to a network with an always-on broadband connection and use special content.

Internet connection feature (Outline)

Internet connection feature (Preparation)

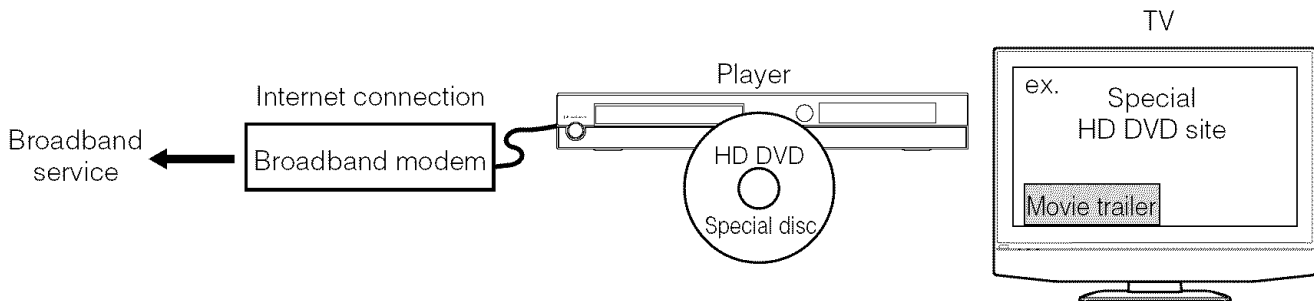
Internet connection feature (Operation)

Internet connection feature (Outline)

If you connect the player to the Internet via an always-on broadband connection, some HD DVD discs enable you to access special HD DVD sites, etc. For example, if an HD DVD site includes content such as movie trailers, you can watch the content on the player via the Internet. On such sites, downloading service of the control program (firmware) updates of the player is also available.

You do not need to connect to a PC to use this function.

You may also use the internet connection feature to update the player's firmware. See  page 58.



Before using

- Before using this feature, please read and understand the important information in "Notes".
- This feature requires always-on broadband internet connection.
- An HD DVD disc compatible with this feature (commercially available) is required. Not all HD DVD discs are compatible.

Connection requirement

Always-on internet broadband internet connection.

Note

- The above requirement may change without advance notice. In addition, all operations are not guaranteed.

Notes

- Toshiba is not responsible for any malfunction of the player and/or the internet connection feature due to communication errors/malfunctions associated with your broadband internet connection, or other connected equipment.
- Toshiba is not responsible for any trouble in your internet connection.
- If you use a wireless ethernet network, you will need to use a wireless LAN ethernet adapter to connect the player to the network.
- The features of HD DVD discs made available through the Internet Connection feature are not created or provided by Toshiba, and Toshiba is not responsible for their functionality or continued availability. Some disc related material available by the Internet Connection may not be compatible with this player. If you have questions about such content, please contact the producer of the disc.
- Some internet contents may require a higher bandwidth connection.

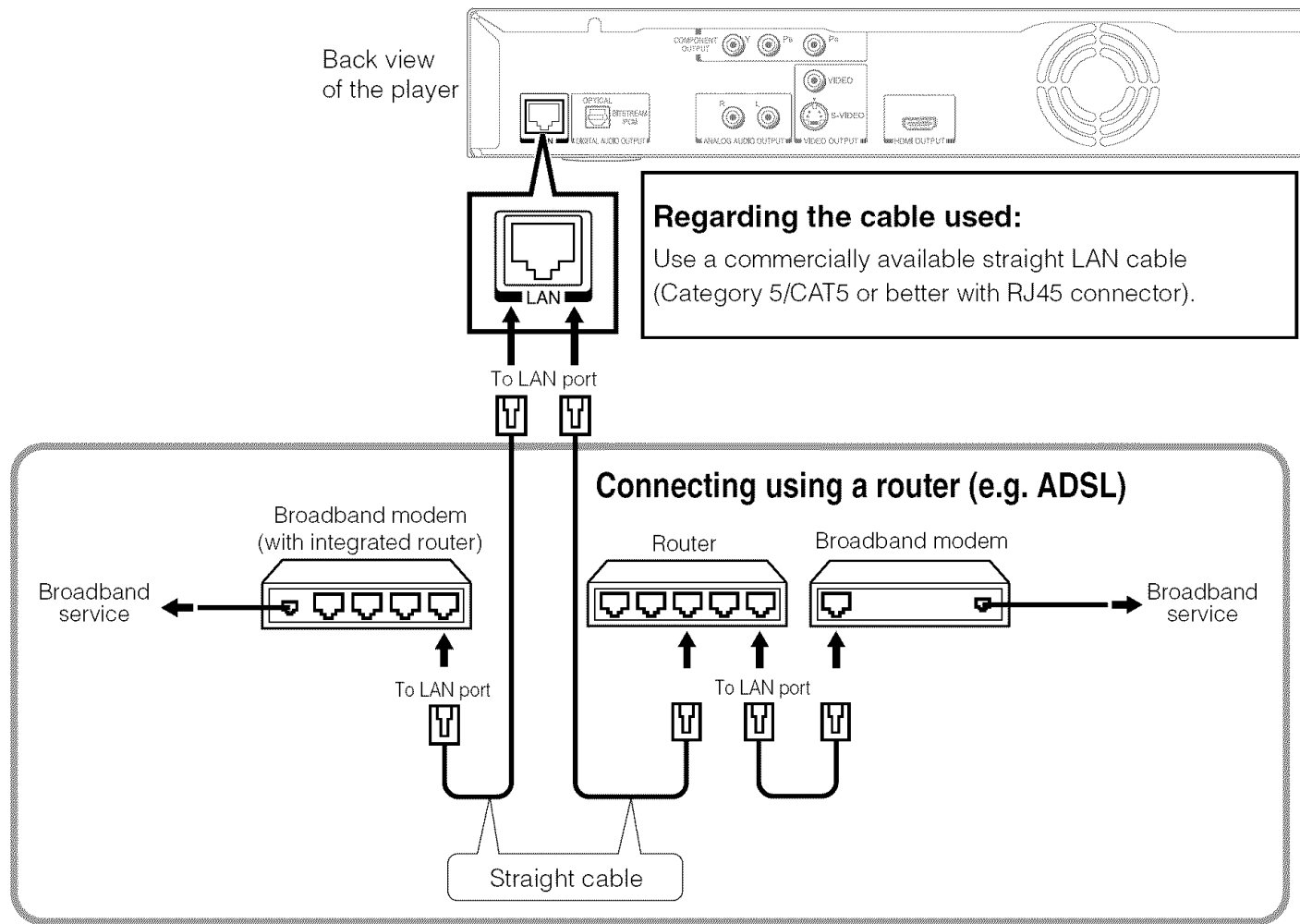
- Even if the player is properly connected and configured, some internet contents may not operate properly because of internet congestion, the quality or bandwidth of your internet service, problems at the provider of the content or compatibility issues.
- The communication features of this player comply with the Institute of Electrical and Electronic Engineers (IEEE) 802.3.
- Some internet connection operations may not be possible due to certain restrictions set by the Internet service provider (ISP) supplying your broadband Internet connection.
- Any fees charged by an ISP including, without limitation, connection charges are your responsibility.
- A 10 Base-T or 100 Base-TX LAN port is required for connection to this player. If your internet service does not allow for such a connection, you will not be able to connect the player.
- ADSL modem is required to use DSL service and a cable modem is required to use cable modem service. Depending on the access method of and subscriber agreement with your ISP, you may not be able to use the internet connection feature contained in this player or you may be limited to the number of devices you can connect at the same time. (If your ISP limits subscription to one device, this player may not be allowed to connect when a PC is already connected.)
- The use of a "Router" may not be allowed or its usage may be limited depending on the policies and restrictions of your ISP. For details, contact your ISP directly.

Internet connection feature (Preparation)

HD DVD

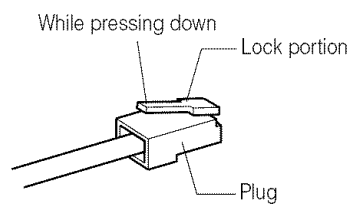
Connect the player to the Internet via an always-on broadband connection. In addition to accessing special HD DVD sites, this function is used when updates are available for the control program (firmware) of the player.

Connection



Caution

- When plugging or unplugging the LAN cable, hold the plug portion of the cable. When unplugging, do not pull on the LAN cable but unplug while pressing down on the lock.
- Do not connect the modular phone cable to the LAN port.
- Since there are various connection configurations, please follow the specifications of your telecommunication carrier or internet service provider.



Note

- Depending on the internet service provider (ISP), the number of devices that can receive internet service may be limited by the applicable terms of service. For details, contact your ISP.

Internet connection setting procedure (Outline)

1st DHCP setting

- Set "DHCP" to "On".
The network information is automatically set.
- Set "DNS" to "On".
The DNS server is obtained automatically from the DHCP server.

If a connection cannot be established even if "DHCP" is set to "On".

- Set "DHCP" to "Off".
Set "IP Address", "Subnet Mask", and "Gateway" manually.
- Set "DNS" to "Off".
Set the DNS server address manually.

2nd Proxy setting

If the provider you are using requires a proxy setting to be configured, set the corresponding proxy server address.

3rd NTP Server setting

The player automatically accesses an internet server to adjust its clock via the network time protocol.

4th Network Speed setting

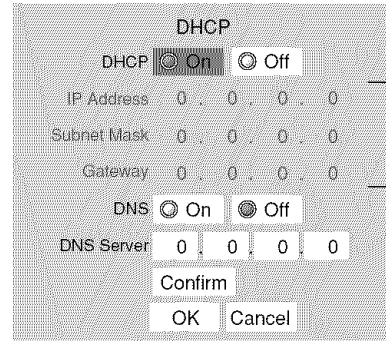
Select the speed according to the specification of your LAN.

5th Cookie setting

Select whether you accept cookies or not.

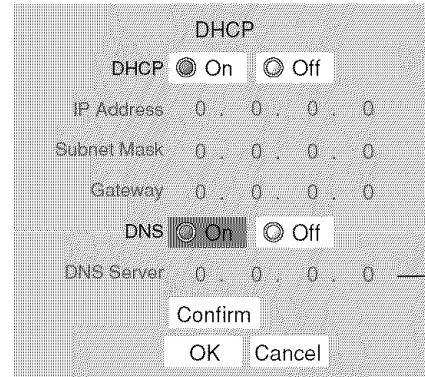
1st DHCP setting

- 1 Press SETUP button.
"SETUP MENU" appears.
- 2 Press ▲/▼ buttons to select "Ethernet", then press OK button.
- 3 On "Ethernet" menu, press ▲/▼ buttons to select "DHCP" then press OK button.
- 4 Set "DHCP" to "On", then press OK button.



Skipped when "DHCP" is set to "On".

- 5 Set "DNS" to "On", then press OK button.



Skipped when "DHCP" is set to "On".

- 6 Select "Confirm", then press OK button.
Confirming starts.
If the setup is successful, an IP address appears.
Press OK button.

If the setup is not successful:

- a) Set "DHCP" to "Off" then press OK button.
- b) Input the addresses into "IP Address", "Subnet Mask" and "Gateway" using the number buttons.

| | |
|-------------|--|
| IP Address | This sets a different address within the same subnet of the PC on your network. e.g.: If the IP address of the PC is 192.168.1.10, set 192.168.1.15 (or some other unused address). |
| Subnet Mask | This sets the subnet mask of the network environment that will be connected. e.g.: 255.255.255.0 |
| Gateway | This sets the gateway used by the player (e.g.: 192.168.1.1). |

- c) Set "DNS" to "Off" then press OK button.
- d) Input the address into "DNS Server".
This sets the DNS server to be used by the player.
e.g.: 192.168.1.1
- e) Press OK button.

Internet connection feature (Preparation) (Continued)

2nd Proxy Setting

Enter the proxy server address when your provider requires proxy setting.

- 1 On "Ethernet" menu, press ▲/▼ buttons to select "Proxy setting" then press OK button.
- 2 Set "Proxy" to "On" then press OK button.

- 3 Press ▲/▼/◀/▶ buttons to input.
 Server: Enter the specified data from the provider.
 Port: Enter the specified data from the provider.
 User: Enter the specified data from the provider.
 Password: Enter the specified data from the provider.
- 4 Select "OK" then press OK button.

3rd NTP Server setting (Clock adjustment setting)

- 1 On "Ethernet" menu, press ▲/▼ buttons to select "NTP Server" then press OK button.
- 2 Select "On" or "Off" by pressing ▲/▼ buttons.

| | |
|-----|---|
| On | The player automatically accesses an internet server to adjust time protocol. |
| Off | The player does not access an internet server to adjust its clock. |

- 3 Select "OK" then press OK button.

4th Network Speed setting

Select your network speed.

- 1 On "Ethernet" menu, press ▲/▼ buttons to select "Network Speed" then press OK button.
- 2 Select the speed by pressing ▲/▼ buttons.
- 3 Select "OK" then press OK button.

5th Cookie Setting

Select whether you accept cookies or not.

- 1 On "Ethernet" menu, press ▲/▼ buttons to select "Cookie Setting" then press OK button.
- 2 Select "Accept" or "Not Accept" by pressing ▲/▼ buttons.

| | |
|------------|---|
| Accept | Cookies are accepted. |
| Not Accept | Cookies are rejected. This may disable some services on web pages. |

- 3 Select "OK" then press OK button.

User information setting

Although not directly related to the Internet connection, some HD DVD discs may require the following settings to be configured.

- 1 On "Ethernet" menu, press ▲/▼ buttons to select "User Information" then press OK button.

- 2 Select "User" then press OK button.
 - 3 Input characters by pressing ▲/▼ buttons.
To shift the position, press ◀/▶ buttons.
Press OK button.
 - 4 Select "Password" then press OK button.
Input your password in the same manner as step 3.
Press OK button.
 - 5 Select "OK" then press OK button.
- Use a password that others cannot easily guess.

Mac Address

Displays the MAC address of the player.
It cannot be changed.

- 1 On "Ethernet" menu, press ▲/▼ buttons to select "Mac Address" then press OK button.
The MAC address appears.

Notes

- Please contact the router manufacturer when the router DHCP feature is not operating properly (in such a case, an error will occur since the default gateway and the DNS server IP address cannot be obtained).
- The firmware in this player is updateable. See page 58 for information.

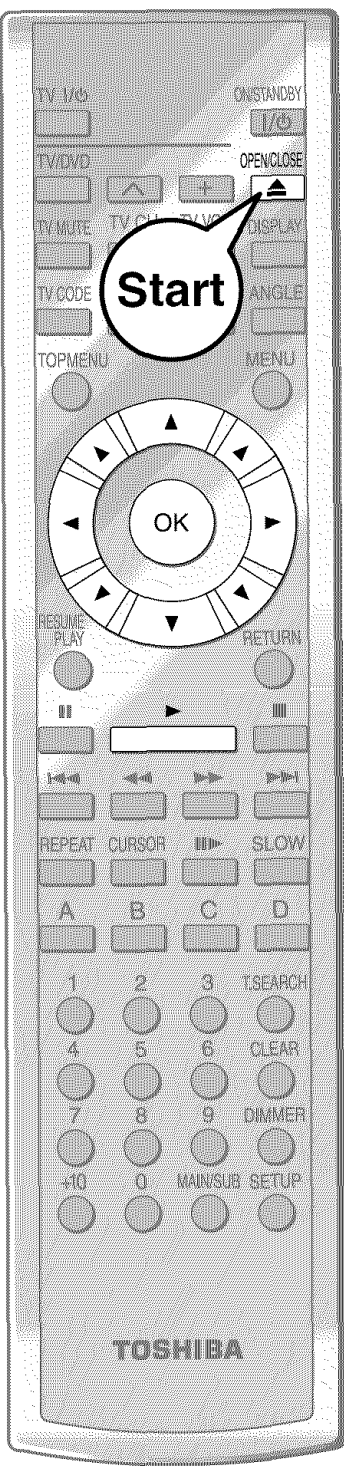
Internet connection feature (Operation)

HD DVD


Some HD DVD discs enable you to access special HD DVD sites. If an HD DVD site includes content such as movie trailers, you can watch the content on the player via the Internet if your internet connection provides sufficient bandwidth.

Preparation




Connect and configure the player to access the Internet beforehand (➡ pages 44 to 46).



1 Insert the HD DVD disc and close the tray.

The disc begins to play.
If the disc does not begin to play, press .

2 Select an item from the menu.

- If the menu does not appear, press  or .
- To select an item, use the direction buttons to select the item and press .
- Use the cursor function for some discs (➡ page 39).

For example, you can watch the latest trailers on the player via the Internet.

For details on actual operations, also refer to the operations guide for the disc.

6 Others

This chapter includes details on setting items and information on troubleshooting problems.

Customizing the function settings

Language code list

Output sound conversion table

License information on the software used in the TOSHIBA HD DVD player

Before calling service personnel

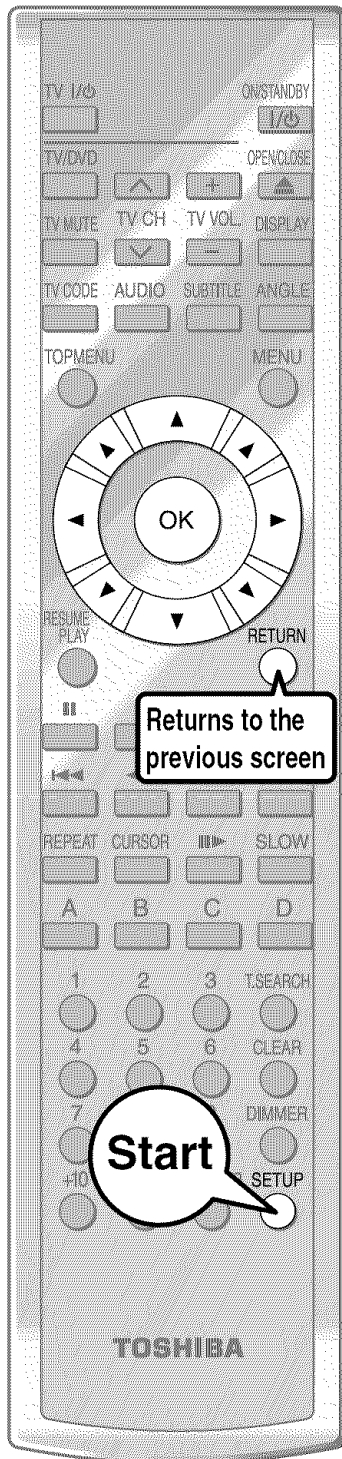
Specification

Limited United States Warranty

CANADIAN WARRANTY INFORMATION




INFORMATION ON CUSTOMER SUPPORT

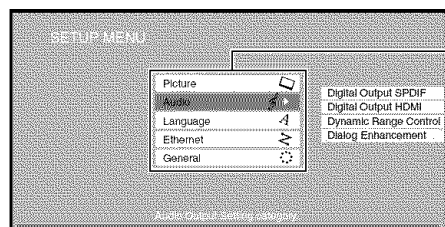
Customizing the function settings






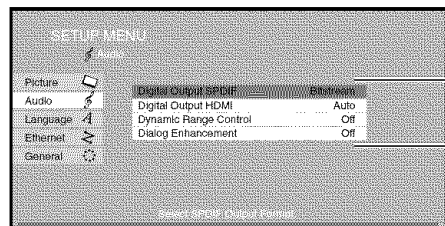
You can change the default settings to customize performance to your preference.




1 During stop, press .
"SETUP MENU" appears.

2 Press / to select the group that contains a desired item, then press .



3 Press / to select the setting item, then press .



4 Refer to the explanations on pages beginning from 52, to change the selection by / or other buttons, then press .

5 Repeat step 3 and 4 to set other items if necessary.

6 Press .
"SETUP MENU" disappears and the setting is completed.

| Group | Setting | Disc | | | | Details | Page |
|-----------------------|-------------------------|---------------|---------------|---------------|---|--|------|
| Picture | TV Shape | HD DVD | HD DVD-R | DVD Video | DVD-RW | To select a picture size according to the aspect ratio of your TV. | 52 |
| | | DVD-R | CD | | | | |
| | Enhanced Black Level | HD DVD | HD DVD-R | DVD Video | DVD-RW | To select the black level of playback pictures. | |
| | | DVD-R | | | | | |
| Picture Mode | HD DVD | HD DVD-R | DVD Video | DVD-RW | To select the system of output signal corresponding to playback source. (Only when connected to a PROGRESSIVE TV.) | | |
| | DVD-R | | | | | | |
| Resolution Setting | HD DVD | HD DVD-R | DVD Video | DVD-RW | To select the resolution of the player's output, according to the connected TV. | | |
| | DVD-R | | | | | | |
| Audio | Digital Output SPDIF | HD DVD | HD DVD-R | DVD Video | DVD-RW | To select the output sound format when connecting the DIGITAL AUDIO OUTPUT jack. | 53 |
| | | DVD-R | CD | CD-RW (CD-DA) | CD-R (CD-DA) | | |
| | Digital Output HDMI | HD DVD | HD DVD-R | DVD Video | DVD-RW | To select the output sound format when connecting the HDMI OUTPUT jack. | |
| | | DVD-R | CD | CD-RW (CD-DA) | CD-R (CD-DA) | | |
| Dynamic Range Control | HD DVD | HD DVD-R | DVD Video | DVD-RW | To turn on or off a function that makes faint sounds easier to hear even if you lower the volume during late-hour playback. | | |
| | DVD-R | | | | | | |
| Dialog Enhancement | HD DVD | HD DVD-R | DVD Video | DVD-RW | To turn on or off a function that increases dialog volume of a DVD video disc playback. | | |
| | DVD-R | CD | CD-RW (CD-DA) | CD-R (CD-DA) | | | |
| Language | Disc Menu Language | HD DVD | HD DVD-R | DVD Video | To select a preferred language for disc menus. | 54 | |
| | Subtitle Language | HD DVD | HD DVD-R | DVD Video | To select a preferred language for subtitles. | 54 | |
| | Audio Language | HD DVD | HD DVD-R | DVD Video | To select a preferred language for the sound track. | 54 | |
| | On Screen Language | HD DVD | HD DVD-R | DVD Video | DVD-RW | To select a preferred language for on-screen displays. | 55 |
| DVD-R | CD | CD-RW (CD-DA) | CD-R (CD-DA) | | | | |
| Ethernet | | HD DVD | | | To set up the player for internet connection feature. | 45 | |
| General | Parental Lock | HD DVD | HD DVD-R | DVD Video | To turn the parental lock function on or off. | 56 | |
| | Clock Set | HD DVD | HD DVD-R | DVD Video | DVD-RW | To set the clock of the player. | 57 |
| | | DVD-R | CD | CD-RW (CD-DA) | CD-R (CD-DA) | | |
| | OSD On/Off | HD DVD | HD DVD-R | DVD Video | DVD-RW | To activate or deactivate the operational status display on the TV screen. | 57 |
| | | DVD-R | CD | CD-RW (CD-DA) | CD-R (CD-DA) | | |
| | Remote Controller Sound | HD DVD | HD DVD-R | DVD Video | DVD-RW | To turn on or off the confirmation beeper announcing when each remote command is received. | 57 |
| | | DVD-R | CD | CD-RW (CD-DA) | CD-R (CD-DA) | | |
| Screen Saver | | HD DVD-R | DVD Video | DVD-RW | To turn on or off the screen saver (screen protection to prevent image burn). | 57 | |
| | DVD-R | CD | CD-RW (CD-DA) | CD-R (CD-DA) | | | |
| Maintenance | HD DVD | HD DVD-R | DVD Video | DVD-RW | To select the player conditioning options, such as initializing of settings or firmware download. | 58 | |
| | DVD-R | CD | CD-RW (CD-DA) | CD-R (CD-DA) | | | |
| Twin Format Disc | | HD DVD | | | To select the layer to play of an HD DVD Twin Format Disc. | 58 | |

Customizing the function settings (Continued)

Picture

TV Shape

16:9

Select when a 16:9 wide TV is connected.

4:3

Select when a standard 4:3 TV is connected.

Displays pictures cropped to fill your TV screen. Either or both of the picture's sides are cut off.

4:3Letter Box

Select when a standard 4:3 TV is connected.

Displays theatrical images with masking bars above and below the picture.

Notes

- When an HD DVD disc or a DVD video disc has a particular available picture shape, the contents may not be compatible with other picture shapes.
- DVD video discs containing 4:3 picture only always display 4:3 pictures regardless of this setting.
- If "16:9" is selected while connecting a 4:3 TV, playback pictures may be distorted horizontally or shrink vertically. Make this setting according to your TV shape.
- Actual picture shape may depend on signal types of broadcasts or input sources, or settings on the connected TV. Refer to the owner's manual of your TV.

Enhanced Black Level

You can adjust the black level of the output signal.

On

To display deeper, richer black than in "Off" setting. (0 IRE)

Off

Normal black level. (7.5 IRE)

Picture Mode

There are two types of source content in pictures recorded in DVD video discs: film content (pictures recorded from films at 24 frames per second) and video content (video signals recorded at 30 frames per second). Make this selection according to the type of content being viewed.

Film

The player converts film content pictures in the progressive output format appropriately. Suitable for playback of film content pictures.

Video

The player filters video signal, and converts it in the progressive output format appropriately. Suitable for playback of video content pictures.

Auto

Select this position normally. The player automatically detects source content, film or video, of playback source, and converts that signal in the progressive output format in an appropriate method.

Note

- Depending on a disc, "Auto" setting may not be able to detect source content. If pictures may be doubled, roughened, or may show other abnormality, "Film" or "Video" selection is recommended for possible improvement.

Resolution Setting

See  page 23.

Audio

Digital Output SPDIF

Selects the output sound format when an audio device such as an amplifier to the DIGITAL AUDIO OUTPUT BITSTREAM/PCM jack on this player.

For details about output sound selection, see ➡ page 60.

Bitstream

Select this when an amplifier equipped with built-in Dolby Digital, DTS or MPEG decoder is connected to this player. When you play a disc recorded in Dolby Digital or DTS format, digital audio signal (bitstream audio) is output.

PCM

Select this when a 2 channel digital stereo amplifier is connected to this player.

When you play an HD DVD or DVD video disc recorded in Dolby Digital, Dolby Digital Plus, Dolby TrueHD, DTS or DTS-HD format, sound is converted into PCM (2 channel) format to output.

Digital Output HDMI

Select the output sound format when a device equipped with an HDMI terminal is connected to the HDMI OUTPUT jack on this player.

For details about output sound selection, see ➡ page 60.

Auto

Select this when an HDMI device equipped with built-in Dolby Digital, DTS, MPEG or linear PCM decoder is connected to this player.

When you play a disc recorded in Dolby Digital or DTS format, digital audio signal (bitstream audio) is output.

If a connected HDMI device does not support Dolby Digital, DTS or MPEG, sound is converted into linear PCM to output.

PCM

Select this when an HDMI device which has multi channel output is connected to this player.

When you play an HD DVD or DVD video disc recorded in multi channel in Dolby Digital, Dolby Digital Plus, Dolby TrueHD, DTS or DTS-HD format, the sound is decoded and output in multi channel in linear PCM format.

Downmixed PCM

Select this when a 2 channel digital stereo amplifier is connected to this player.

When you play a DVD video disc recorded in Dolby Digital, DTS, MPEG1 or MPEG2 format, sound is converted into PCM (2 channel) format to output.

Note

- Setting "Auto" or "PCM" will reduce output level of multi channel sound from the ANALOG AUDIO OUTPUT jacks and the DIGITAL AUDIO OUTPUT BITSTREAM/PCM jack if you:
 - view the playback picture on an HDMI TV connected to this player.
 - play an HD DVD video disc of a certain type, recorded in linear PCM format.

In this case, the output level will be restored by setting to "Downmixed PCM".

Dynamic Range Control

To turn on or off a function that makes faint sounds easier to hear even if you lower the volume during late-hour playback.

Auto

This function is activated.

While playing an HD DVD video disc recorded in Dolby TrueHD format, "On" or "Off" will be automatically selected.

On

This function is activated.

Off

This function is disabled.

Notes

- This function is effective only in playback of HD DVD or DVD video discs recorded in Dolby Digital, Dolby Digital Plus or Dolby TrueHD format.
- The effect level of this function vary depending on the disc.

Dialog Enhancement

To turn on or off a function that increases dialog volume of a DVD video disc playback.

On

This function is activated.

Off

This function is disabled.

Notes

- This function is effective only in playback of Dolby Digital recorded HD DVD or DVD video discs.
- The effect level of this function vary depending on the disc.

Customizing the function settings (Continued)

Language

Disc Menu Language

To select a preferred language for disc menus.

English

To display disc menus in English.

French

To display disc menus in French.

Japanese

To display disc menus in Japanese.

German

To display disc menus in German.

Others

To make a further language choice.

After pressing OK button, follow steps 1) – 4) below.

- 1) Obtain the language code of the preferred language from the Language code list (▶ page 59).
- 2) Select the first character by pressing ▲/▼ buttons.
- 3) Press ◀/▶ buttons to shift. Select the second character by pressing ▲/▼ buttons.
- 4) Select “OK” and press OK button.

Note

- Some discs may be played in a different language from that you selected. A prior language may be programmed by the disc.

Subtitle Language

To select a preferred language for subtitles.

None

To disable subtitles.

English

To display subtitles in English.

French

To display subtitles in French.

Japanese

To display subtitles in Japanese.

German

To display subtitles in German.

Others

To make a further language choice.

After pressing OK button, follow steps 1) – 4) below.

- 1) Obtain the language code of the preferred language from the Language code list (▶ page 59).
- 2) Select the first character by pressing ▲/▼ buttons.
- 3) Press ◀/▶ buttons to shift. Select the second character by pressing ▲/▼ buttons.
- 4) Select “OK” and press OK button.

Notes

- Some discs may be set to display subtitles in a different language from that you selected. A prior subtitle language may be programmed by the disc.
- Some discs allow you to change subtitle selections only via the disc menu. In this case, press MENU button and choose the appropriate subtitle language from the selection on the disc menu.

Audio Language

To select a preferred language for the sound track.

English

To display sound tracks recorded in English.

French

To display sound tracks recorded in French.

Japanese

To display sound tracks recorded in Japanese.

German

To display sound tracks recorded in German.

Others

To make a further language choice.

After pressing OK button, follow steps 1) – 4) below.

- 1) Obtain the language code of the preferred language from the Language code list (▶ page 59).
- 2) Select the first character by pressing ▲/▼ buttons.
- 3) Press ◀/▶ buttons to shift. Select the second character by pressing ▲/▼ buttons.
- 4) Select “OK” and press OK button.

Note

- Some discs may be played in a different language from that you selected. A prior language may be programmed by the disc.

Ethernet

See the "Internet connection" chapter (➔ page 42).

On Screen Language

To select a preferred language for on-screen displays.

English

To view on-screen display in English.

French

To view on-screen display in French.

Japanese

To view on-screen display in Japanese.

German

To view on-screen display in German.

Customizing the function settings (Continued)

General

Parental Lock

HD DVD and DVD video discs equipped with the Parental Lock function have a predetermined limitation level. The limitation level or limitation method may differ depending on the disc. For example the whole contents of a disc may not be played back, or an extreme violent scene may be cut or replaced automatically by another scene.

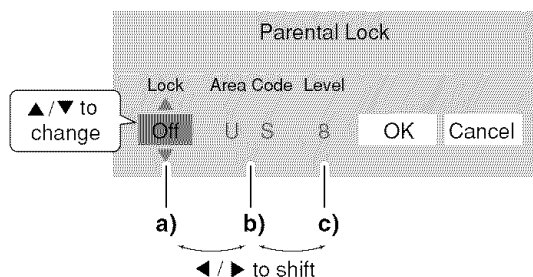
Important

Depending on discs, it may not be evident whether the disc is compatible with Parental Lock function. Make sure that Parental Lock function you set is activated correctly.

- 1 **Enter a 4-digit password by using the number buttons, then press OK button.**

When you use the player for the first time, set a new password of 4-digit. If you make a mistake entering your password, press CLEAR button before pressing OK button, and re-enter the correct password.

- 2 **Set the details.**



- a) **Select "On" or "Off" by pressing ▲/▼ buttons.**

On

Select this to activate Parental Lock function or to change the setting.

Off

Deactivate the Parental Lock function.
Skip step 3.

- b) **Press ▲/▼ buttons to enter the code of a country/area whose standards were used to rate a disc, referring to the list below.**

| Country/Area | Code |
|-----------------|------|
| AUSTRALIA | AU |
| BELGIUM | BE |
| CANADA | CA |
| CHINA | CN |
| CHINA HONG KONG | HK |
| DENMARK | DK |
| FINLAND | FI |

| | |
|--------------------|----|
| FRANCE | FR |
| GERMANY | DE |
| INDONESIA | ID |
| ITALY | IT |
| JAPAN | JP |
| MALAYSIA | MY |
| NETHERLANDS | NL |
| NORWAY | NO |
| PHILIPPINES | PH |
| RUSSIAN FEDERATION | RU |
| SINGAPORE | SG |
| SPAIN | ES |
| SWEDEN | SE |
| SWITZERLAND | CH |
| TAIWAN | TW |
| THAILAND | TH |
| UNITED KINGDOM | GB |
| UNITED STATES | US |

- c) **Select the desired limitation level by pressing ◀/▶ buttons.**

Unless the Parental Lock function is set to "Off", a disc that has a higher limitation level than your selected limitation level cannot be played back. For example, if you select level 7, discs exceeding level 8 are locked and cannot be played back.

When "US" is selected, its limitation level corresponds to the following settings.

| | |
|-----------------|--------------|
| Level 7 : NC-17 | Level 3 : PG |
| Level 6 : R | Level 1 : G |
| Level 4 : PG13 | |

- 4 **Select "OK" then press OK button.**

■ To change the limitation level of Parental Lock function

Follow step 1 - 3 above.

■ To change the password

- 1 **At step 1, press STOP button 4 times then press OK button.**

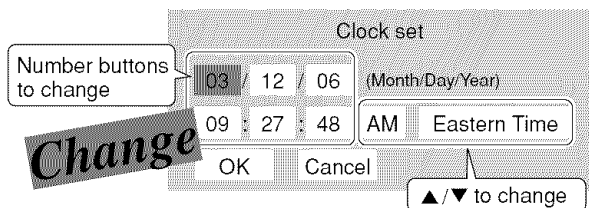
The password is cleared.

- 2 **Enter a new 4-digit password by using the number buttons.**
- 3 **Press OK button.**

Clock Set

To set the clock of the player.

- 1 Press ▲/▼ buttons to select the input area.



- 2 Press the number buttons to change the digit to set the date and time.
- 3 Press ▲/▼ buttons to select "AM" or "PM" and your time zone.
- 4 Select "OK" and press OK button.

The clock starts.

OSD On/Off

To activate or deactivate the operational status display on the TV screen.

On

Activates the operational status display (e.g., ►) on the TV screen.

Off

Deactivates the operational status display (e.g., ►) on the TV screen.

Remote Controller Sound

To turn on or off the confirmation beeper announcing when each remote command is received.

On

Turns on the beep sound.

Off

Turns off the beep sound.

Screen Saver

To turn on or off the screen protection function to prevent image burn caused by prolonged still picture.

Auto Power Off

Turns the player off if picture pausing continues for about 20 minutes.

On

Activates the screen saver if picture pausing continues for about 20 minutes.

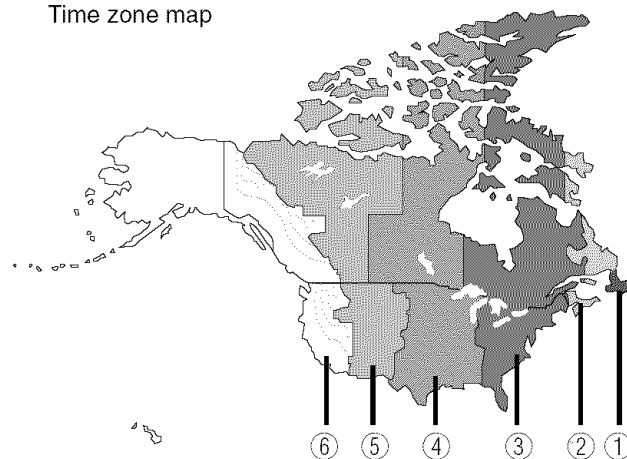
Off

Deactivates the screen saver.

Notes


- Toshiba does not guarantee that this function protects the TV screen by all means.
- To close the screen saver, press any button on the player or the remote control.

Time zone map



- ① Newfoundland Time
- ② Atlantic Time
- ③ Eastern Time
- ④ Central Time
- ⑤ Mountain Time
- ⑥ Pacific Time

Customizing the function settings (Continued)**General****Maintenance (including internet firmware update)****Initialize**

To reset all the settings listed on  page 53 to factory set default.

Press ◀/▶ buttons to select "Yes" then press OK button.

Update (Firmware update)

To determine the current firmware version.

Or

To download the latest firmware from the Toshiba server.

Before you can use this function, the player needs to be connected to the Internet via an always-on broadband connection. For details on connecting, refer to the "Internet connection" chapter. Also, the player needs to be loaded no disc. Eject a disc beforehand.

To update the firmware, press SETUP button. Operate following the instructions displayed on your screen. If there is no update available (in which case your player likely has the latest firmware), a message appears and the process is canceled. Please check the support section of the Toshiba website for information about firmware updates (including information on how to obtain updates on disc rather than using the Internet Connection feature of the player).

Persistent Storage

To open the menu to control player's memory allocated for content.

The menu selections will vary depending on the content.

Operate following the instructions displayed on your screen.

Caution

- Do not unplug, turn off or use any other feature of the player during the download. The writing of the software being downloaded will be halted and the player may no longer work properly. If the player stops working, contact Toshiba Customer Service.

Twin Format Disc

To select a layer to play, HD DVD or DVD of an HD DVD Twin Format Disc.

HD DVD

Only the HD DVD layer is played.

DVD

Only the DVD layer is played.

Language code list

| Abbreviation | Language |
|--------------|-----------------------|
| --- | No alternate language |
| CHI (ZH) | Chinese |
| DUT (NL) | Dutch |
| ENG (EN) | English |
| FRE (FR) | French |
| GER (DE) | German |
| ITA (IT) | Italian |
| JPN (JA) | Japanese |
| KOR (KO) | Korean |
| MAY (MS) | Malay |
| SPA (ES) | Spanish |
| AA | Afar |
| AB | Abkhazian |
| AF | Afrikaans |
| AM | Amharic |
| AR | Arabic |
| AS | Assamese |
| AY | Aymara |
| AZ | Azerbaijani |
| BA | Bashkir |
| BE | Belorussian |
| BG | Bulgarian |
| BH | Bihari |
| BI | Bislama |
| BN | Bengali, Bangla |
| BO | Tibetan |
| BR | Breton |
| CA | Catalan |
| CO | Corsican |
| CS | Czech |
| CY | Welsh |
| DA | Danish |
| DZ | Bhutani |
| EL | Greek |
| EO | Esperanto |
| ET | Estonian |
| EU | Basque |
| FA | Persian |
| FI | Finnish |
| FJ | Fiji |
| FO | Faroese |
| FY | Frisian |
| GA | Irish |
| GD | Scottish Gaelic |
| GL | Galician |

| Abbreviation | Language |
|--------------|------------------|
| GN | Guarani |
| GU | Gujarati |
| HA | Hausa |
| HI | Hindi |
| HR | Croatian |
| HU | Hungarian |
| HY | Armenian |
| IA | Interlingua |
| IE | Interlingue |
| IK | Inupiak |
| IN | Indonesian |
| IS | Icelandic |
| IW | Hebrew |
| JI | Yiddish |
| JW | Javanese |
| KA | Georgian |
| KK | Kazakh |
| KL | Greenlandic |
| KM | Cambodian |
| KN | Kannada |
| KS | Kashmiri |
| KU | Kurdish |
| KY | Kirghiz |
| LA | Latin |
| LN | Lingala |
| LO | Laotian |
| LT | Lithuanian |
| LV | Latvian, Lettish |
| MG | Malagasy |
| MI | Maori |
| MK | Macedonian |
| ML | Malayalam |
| MN | Mongolian |
| MO | Moldavian |
| MR | Marathi |
| MT | Maltese |
| MY | Burmese |
| NA | Nauru |
| NE | Nepali |
| NO | Norwegian |
| OC | Occitan |
| OM | (Afan) Oromo |
| OR | Oriya |
| PA | Panjabi |
| PL | Polish |
| PS | Pashto, Pushto |

| Abbreviation | Language |
|--------------|----------------|
| PT | Portuguese |
| QU | Quechua |
| RM | Rhaeto-Romance |
| RN | Kirundi |
| RO | Rumanian |
| RU | Russian |
| RW | Kinyarwanda |
| SA | Sanskrit |
| SD | Sindhi |
| SG | Sango |
| SH | Serbo-Croatian |
| SI | Singhalese |
| SK | Slovak |
| SL | Slovenian |
| SM | Samoan |
| SN | Shona |
| SO | Somali |
| SQ | Albanian |
| SR | Serbian |
| SS | Siswati |
| ST | Sesotho |
| SU | Sundanese |
| SV | Swedish |
| SW | Swahili |
| TA | Tamil |
| TE | Telugu |
| TG | Tajik |
| TH | Thai |
| TI | Tigrinya |
| TK | Turkmen |
| TL | Tagalog |
| TN | Setswana |
| TO | Tongan |
| TR | Turkish |
| TS | Tsonga |
| TT | Tatar |
| TW | Twi |
| UK | Ukrainian |
| UR | Urdu |
| UZ | Uzbek |
| VI | Vietnamese |
| VO | Volapük |
| WO | Wolof |
| XH | Xhosa |
| YO | Yoruba |
| ZU | Zulu |

Output sound conversion table

| Disc | Audio Format | | Digital Output SPDIF | |
|--------------------------------|--------------|-----------|----------------------|-----------|
| | | | Bitstream | PCM |
| HD DVD Video Standard contents | DD plus | | Bitstream | 2ch PCM |
| | True HD | 48kHz | 2ch PCM | 2ch PCM |
| | | 96kHz | 2ch PCM*1 | 2ch PCM*1 |
| | | 192kHz | 2ch PCM*1 | 2ch PCM*1 |
| | dts-HD | | Bitstream | 2ch PCM |
| | L-PCM | 48k | 2ch PCM | 2ch PCM |
| | | 96k | 2ch PCM*1 | 2ch PCM*1 |
| 192k | | 2ch PCM*1 | 2ch PCM*1 | |
| Advanced con. | | | DTS Bitstream | 2ch PCM |
| HD DVD-R | DD | | Bitstream | 2ch PCM |
| | L-PCM | | 2ch PCM | 2ch PCM |
| | MPEG | | Bitstream | 2ch PCM |
| DVD-Video | DD | | Bitstream | 2ch PCM |
| | L-PCM | 48k | 2ch PCM | 2ch PCM |
| | | 96k | 2ch PCM*1 | 2ch PCM*1 |
| | dts | | Bitstream | 2ch PCM |
| | MPEG | | Bitstream | 2ch PCM |
| CD | L-PCM | 44.1kHz | 2ch PCM | 2ch PCM |
| | dts | 44.1kHz | Bitstream | 2ch PCM |
| DVD-VR | DD | | Bitstream | 2ch PCM |
| | L-PCM | | 2ch PCM | 2ch PCM |
| | MPEG | | Bitstream | 2ch PCM |

| Disc | Audio Format | | Digital Output HDMI | | |
|--------------------------------|----------------------|-------------------------|-------------------------|------------------|---------------|
| | | | Auto | PCM | Downmixed PCM |
| HD DVD Video Standard contents | DD plus | | Depend on HDMI receiver | upto 5.1ch PCM*3 | 2ch PCM |
| | True HD | 48kHz | Depend on HDMI receiver | Multi PCM | 2ch PCM |
| | | 96kHz | Depend on HDMI receiver | Multi PCM | 2ch PCM*1 |
| | | 192kHz | Depend on HDMI receiver | 2ch PCM*1 | 2ch PCM*1 |
| | dts-HD | | Depend on HDMI receiver | upto 5.1ch PCM*3 | 2ch PCM |
| | L-PCM | 48kHz | Depend on HDMI receiver | Multi PCM | 2ch PCM |
| | | 96kHz | Depend on HDMI receiver | Multi PCM*4 | 2ch PCM*1 |
| 192kHz | | Depend on HDMI receiver | 2ch PCM*4 | 2ch PCM*1 | |
| MPEG | | Depend on HDMI receiver | 2ch PCM | 2ch PCM | |
| Advanced con. | Depends on contents. | | Depend on HDMI receiver | Multi PCM*4 | 2ch PCM*1 |
| HD DVD-R | DD | | Depend on HDMI receiver | 2ch PCM | 2ch PCM |
| | L-PCM | | 2ch PCM | 2ch PCM | 2ch PCM |
| | MPEG | | Depend on HDMI receiver | 2ch PCM | 2ch PCM |
| DVD-Video | DD | | Depend on HDMI receiver | Multi PCM | 2ch PCM |
| | L-PCM | 48kHz | 2ch PCM | 2ch PCM | 2ch PCM |
| | | 96kHz | 2ch PCM | 2ch PCM*4 | 2ch PCM*1 |
| | dts | | Depend on HDMI receiver | Multi PCM | 2ch PCM |
| MPEG | | Depend on HDMI receiver | 2ch PCM | 2ch PCM | |
| CD | L-PCM | 44.1kHz | 2ch PCM | 2ch PCM | 2ch PCM |
| | dts | 44.1kHz | Depend on HDMI receiver | Multi PCM | 2ch PCM |
| DVD-VR | DD | | Depend on HDMI receiver | 2ch PCM | 2ch PCM |
| | L-PCM | | 2ch PCM | 2ch PCM | 2ch PCM |
| | MPEG | | Depend on HDMI receiver | 2ch PCM | 2ch PCM |

*1: Downsampling PCM.

*2: Bitstream audio output is possible only when the connected HDMI device has bitstream decoding function. If not, sound is output in PCM (48kHz) format.

*3: Multi channel PCM audio output is possible only when the connected HDMI device has multi channel decoding function.

*4: This output format is possible when the resolution setting is "720p" or "1080i". This will be 48kHz 2ch PCM output when the setting is "480i". When the resolution setting is set to "480p", this output format depends on HDMI receiver.

Notes

- Some discs allow you to change audio selections only via the disc menu. If this is the case, press MENU button and choose the appropriate language from the selections on the disc menu.
- When you turn on the player or replace a disc, the player returns to the initial default setting. (➡ page 54)
Depending on a disc, a specific type of audio the disc has is output.
- Immediately after you have switched sounds, there may be a temporary discrepancy between the display and actual sound.
- The BITSTREAM/PCM jack may not output SAP sound you select. In this instance, set "Digital Output SPDIF" to "PCM".
- The ANALOG AUDIO OUTPUT jacks always output 2ch sound only.

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| glibc | Exhibit B | freetype | Exhibit E |
| gcc | | | |
| libcdaudio | | | |
| mpeg123 | | | |

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Glenn Randers-Pehrson

Willem van Schaik

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Magnus Holmgren

Greg Roelofs

Tom Tanner

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A "png_get_copyright" function is available, for convenient use in "about" boxes and the like:

```
printf("%s",png_get_copyright(NULL));
```

Also, the PNG logo (in PNG format, of course) is supplied in the files "pngbar.png" and "pngbar.jpg" (88x31) and "pngnow.png" (98x31).

Libpng is OSI Certified Open Source Software. OSI Certified Open Source is a certification mark of the Open Source Initiative.

Glenn Randers-Pehrson

glennrp at users.sourceforge.net

3-Dec-04

Exhibit E

Portions of this software are copyright © 2005 The FreeType Project (www.freetype.org). All rights reserved.

- This product includes software developed by the OpenSSL project.
- This product includes software that uses the IJG code.
- Reverse engineering, disassembling, decompiling, dismantling, or otherwise attempting to analyze or modify the software included in this product is prohibited.

Before calling service personnel

If you experience any of the following difficulties while using this unit, check the list below before consulting your nearest Toshiba dealer.

| Symptom | Remedy |
|--|--|
| ■ No power. | → Is the power plug disconnected? Check the power connection. |
| ■ No picture. | → Is the cable for connecting the player and TV disconnected or not connected properly? Check the connections (➡ page 21 – 22) → Switch the input of the connected TV to the signal from the player. → Are both the HDMI OUTPUT jack and the COMPONENT OUTPUT jacks connected simultaneously? Select either connection and make the appropriate setting. (➡ page 21 – 24) |
| ■ No sound. | → Is the audio cable disconnected? (➡ page 22) → Is the volume of the device turned down to the minimum level? Check the volume. → Switch the audio input of the device connected by the audio cable to the input from the player. → Set “Digital Output SPDIF” or “Digital Output HDMI” (➡ page 53) properly in accordance with the connected device and connection procedure. → Change the output resolution (➡ page 23) so that sound can be heard. |
| ■ The disc does not play. | → Make sure the disc type can be played with the player (➡ page 28). → Is the disc dirty or scratched? Check or clean the disc. (➡ page 29) → If the disc is an HD DVD-R, DVD-RW or DVD-R disc, finalize the disc before attempting to play it with the player. → If the disc includes parent lock support, playback is restricted while the parent lock of the player is set. Cancel Parental Lock (➡ page 56) or change the restriction level. |
| ■ Playback picture has noise. | → If video from the player is watched via a video recorder or on a TV with a built-in video recorder, the copy guard may prevent images from being displayed properly. Be sure to connect the player directly to the TV. |
| ■ The remote control does not work. | → Are the batteries of the remote control dead? Replace the batteries. (➡ page 16) → Make sure the remote control is within range and pointed in the correct direction. |
| ■ Screen freezes and no buttons work. | → Pressing ON/STANDBY button on the player for approximately ten seconds forces the player to turn off. Turn the player off and then on again. |

Specification

■ Power requirement

???.?W

■ Power supply

120V AC 60Hz

■ Mass

?.?kg

■ External dimension

Width ??? x Height ??? x Depth ???mm

■ Signal system

Standard NTSC Color TV system

■ Laser

Semiconductor laser, Wavelength: 405nm/650nm/
780nm

■ VIDEO output

1.0Vp-p (75Ω), Sync signal negative,
Pin jack x 1 system

■ S-VIDEO output

(Y) 1.0Vp-p (75Ω), Sync signal negative,
(C) 0.286Vp-p (75Ω), 1 at rear
Mini DIN4 Pin x 1 systems

■ Component output (Y, P_B P_R)

Y output (green), 1.0Vp-p (75Ω),
Sync signal negative, Pin jack x 1 system
P_B, P_R output (blue, red), 0.7Vp-p (75Ω),
Pin jack x 1 system each

■ Analog audio output

2.0V (rms), 2.2kΩ or below, pin jack
(L, R) x 2 systems

■ Digital audio output (BITSTREAM/PCM jack)

Optical connector x 1 system

■ LAN port

100BASE-TX/10BASE-T x 1

■ EXTENSION port

EXTENSION port x 2 systems

■ HDMI output

19 pin

■ Remote control

Wireless remote control (SE-R0252)

■ Operating conditions

Temperature: 41°F ~ 95°F (5°C ~ 35°C),
Position: Horizontal

■ Clock accuracy

Quartz (monthly deviation: approximately ±30
seconds)

- This model complies with the above specifications.
- Designs and specifications are subject to change without notice.
- This model may not be compatible with features and/or specifications that may be added in the future.
- The Illustrations and screens described in this manual may be exaggerated or simplified for easy recognition and may be slightly different from the actual unit.

Limited United States Warranty

Digital Audio Video ("DAV") Product-Depot Repair Warranty

Toshiba America Consumer Products, L.L.C., ("TACP") makes the following limited warranties to original consumers in the United States. THESE LIMITED WARRANTIES EXTEND TO THE ORIGINAL CONSUMER PURCHASER OR ANY PERSON RECEIVING THIS DAV PRODUCT AS A GIFT FROM THE ORIGINAL CONSUMER PURCHASER AND TO NO OTHER PURCHASER OR TRANSFEREE.

DAV PRODUCTS PURCHASED IN THE U.S.A. AND USED ANYWHERE OUTSIDE OF THE U.S.A., INCLUDING, WITHOUT LIMITATION, CANADA AND MEXICO, ARE NOT COVERED BY THESE WARRANTIES.

DAV PRODUCTS PURCHASED ANYWHERE OUTSIDE OF THE U.S.A., INCLUDING, WITHOUT LIMITATION, CANADA AND MEXICO, AND USED IN THE U.S.A., ARE NOT COVERED BY THESE WARRANTIES.

Limited Ninety (90) Day Warranty on Labor*

TACP warrants this DAV Product and its parts against defects in materials or workmanship for a period of ninety (90) days after the date of original retail purchase. DURING THIS PERIOD, TACP WILL, AT TACP'S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU FOR PARTS OR LABOR.

Limited One (1) Year Warranty on Parts*

TACP further warrants the parts in this DAV Product against defects in materials or workmanship for a period of one (1) year after the date of original retail purchase. DURING THIS PERIOD, TACP WILL, AT TACP'S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU FOR THE PART, PROVIDED THAT IF A DEFECTIVE PART IS REPAIRED OR REPLACED AFTER NINETY (90) DAYS FROM THE DATE OF ORIGINAL RETAIL PURCHASE, THE CONSUMER SHALL PAY ALL LABOR CHARGES INVOLVED IN THE REPAIR OR REPLACEMENT THEREOF.

*Rental Units

The warranty for DAV Product rental units begins on the date of the first rental or thirty (30) days after the date of shipment to the rental firm, whichever comes first.

*Commercial Units

DAV Products sold and used for commercial purposes have a limited warranty for all parts and labor, which warranty begins on the date of original retail purchase and ends on the date that is ninety (90) days thereafter.

Owner's Manual and Product Registration Card

Read this owner's manual thoroughly before operating this DAV Product.

Complete and mail the enclosed product registration card or register your DAV Product on-line at www.tacp.toshiba.com/service as soon as possible. By registering your DAV Product you will enable TACP to bring you new products specifically designed to meet your needs and help us to contact you in the unlikely event a safety notification is required under the Consumer Product Safety Act. Failure to complete and return the product registration card does not diminish your warranty rights.

Your Responsibility

THE ABOVE WARRANTIES ARE SUBJECT TO THE FOLLOWING CONDITIONS:

- (1) You must retain your bill of sale or provide other proof of purchase.
- (2) All warranty servicing of this DAV Product must be made by the Depot Warranty Repair Center specified by the TACP Consumer Solutions Center.
- (3) The warranties from TACP are effective only if the DAV Product is purchased and operated in the United States or Puerto Rico.
- (4) Labor service charges for set installation, setup, adjustment of customer controls and installation or repair of antenna systems are not covered by this warranty. Reception problems caused by inadequate antenna systems are your responsibility.
- (5) Warranties extend only to defects in materials or workmanship as limited above and do not extend to any DAV Product or parts that have been lost or discarded by you or to damage to DAV Product or parts caused by fires, misuse, accident, Acts of God, such as lightning or fluctuations in electric power, improper installation, improper maintenance or use in violation of instructions furnished by TACP; use or malfunction through simultaneous use of this DAV Product and connected equipment; or to units that have been modified or had the serial number removed, altered, defaced, or rendered illegible.

How to Obtain Warranty Services

If, after following all of the operating instructions in this manual and checking the section "Before calling service personnel", you find that service is needed:

- (1) For instructions on how to obtain warranty service for your DAV Product, contact TACP's Consumer Solution Center toll-free at 1-800-319-6684.
- (2) You must include a copy of original bill of sale or other proof of purchase along with the entire DAV Product to the Depot Warranty Repair Center specified by the TACP Consumer Solutions Center. You are responsible for all inbound transportation and insurance charges for the DAV Product to the Depot Warranty Repair Center specified by the TACP Consumer Solutions Center.

For additional information, visit TACP's web site:
www.tacp.toshiba.com.

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No person, agent, distributor, dealer or company is authorized to change, modify or extend the terms of these warranties in any manner whatsoever. The time within which an action must be commenced to enforce any obligation of TACP arising under the warranty or under any statute, or law of the United States or of any state thereof, is hereby limited to ninety (90) days from the date you discovered or should have discovered, the defect. This limitation does not apply to implied warranties arising under state law.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH MAY VARY FROM STATE TO STATE IN THE U.S.A. SOME STATES OF THE U.S.A. DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, WHEN AN ACTION MAY BE BROUGHT, OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE PROVISIONS MAY NOT APPLY TO YOU UNDER SUCH CIRCUMSTANCES.



- IMPORTANT - CANADIAN WARRANTY INFORMATION GARANTIE CANADIENNE

STANDARD WARRANTY TYPE OF SET

DVD Player
DVD/VCR Combination
Home Theatre in a Box
DVD Recorder
Portable DVD

WARRANTY PERIOD 12 MONTHS

GARANTIE NORMALE TYPE D'APPAREIL

Lecteur DVD
DVD/magnétoscope combo
Cinéma maison dans une boîte
Enregistreur DVD
DVD Portatif

DURÉE DE LA GARANTIE: 12 MOIS

CANADIAN WARRANTY

Toshiba of Canada Limited (TCL) makes the following limited warranties to original consumers in Canada.

Please retain your "Bill of Sale" as proof of purchase.

To obtain a "Canadian Warranty" please register online at www.toshiba.ca.

GARANTIE CANADIENNE

1) Toshiba du Canada Limitée (TCL) offre au Canada les garanties limitées suivantes aux consommateurs originaux. Veuillez conserver votre « facture » comme preuve d'achat.

Pour obtenir une garantie canadienne, veuillez vous inscrire en ligne à www.toshiba.ca

Canadian Warranty Information

Should service be required on this unit during the one year warranty period, TCL's option will be to repair or exchange the defective unit. It will be necessary to follow this procedure:

Contact: Toshiba of Canada Limited at the Consumer Electronics Group, customer support line.

Phone: 1-800-268-3404

Email: ceg_customer_support@toshiba.ca

All in-warranty repairs must be made by an authorized TCL service centre.

For service exchange TCL will arrange to have the unit picked up by courier and a replacement unit will be returned via same courier. (Note: A major credit card number will be required as a charge of \$25.00 will apply if no fault is found with the unit.)

During the first 3 months of ownership, a new unit will be supplied as a replacement. During the remainder of the warranty period a service-renewed unit will be supplied. The original "Bill of Sale" must be provided as proof of purchase (it will be returned with the replacement unit.)

This 12-month warranty will be strictly adhered to.

Out of warranty units should be repaired by a TCL authorized service centre.

Note: It is the responsibility of the owner to ensure proper packaging. Should damage in shipping occur, due to poor packaging, a charge back for the repair will result. This warranty applies to the original purchaser only and is not transferable.

This warranty does not apply to sets that have been subjected to misuse, neglect, accident, physical damage or acts of nature.

Sets with the serial number removed, altered, replaced or defaced will not be covered by this warranty.

The warranties from TCL are effective only if the product is purchased in Canada from an authorized TCL dealer and operated in Canada.

Products utilized for rental or commercial purposes are not covered by this warranty.

This warranty is in lieu of all other warranties, guaranties or agreements, whether expressed or implied, and no person, agent distributor, dealer, service centre or company is authorized to change, modify or extend its terms in any manner whatsoever.

Information sur la garantie Canadienne

Si vous avez besoin de service sur cet appareil au cours de l'année de garantie, Toshiba du Canada Limitée aura l'option de réparer ou échanger l'appareil défectueux. Vous devrez suivre la procédure suivante:

Contact: Toshiba du Canada Limitée au Groupe Électronique aux consommateurs, service à la clientèle.

Tél: 1-800-268-3404

Courriel: ceg_customer_support@toshiba.ca

Toutes les réparations au cours de la garantie doivent être faites par un centre de service autorisé Toshiba.

Pour un échange TCL s'assurera qu'un service de courrier ramassera l'unité et qu'un appareil de remplacement soit expédié par le même service de courrier.

(Note: Un numéro de carte de crédit sera requis car une charge de 25,00\$ sera appliquée si toutefois l'appareil n'avait aucun problème de fonctionnement.)

Une nouvelle unité sera fournie comme remplacement durant les premiers 3 mois de propriété. Par contre durant la balance de la garantie une unité remise à neuf sera fournie.

La «facture originale doit être fournie comme preuve d'achat (elle vous sera retournée avec l'unité de remplacement.)

Cette garantie de 12 mois sera strictement adhéree.

Les unités hors de garantie devraient être réparées par un centre de service autorisé Toshiba.

Note: C'est la responsabilité du propriétaire de s'assurer que l'emballage est adéquat. Vous serez facturé pour toutes réparations causées par des dommages encourus à cause d'un emballage non adéquat.

Cette garantie est octroyée à l'acheteur initial et n'est pas transférable. Cette garantie ne s'applique pas aux appareils qui ont été sujets aux abus, négligences, accidents, dommages physiques ou actes naturels.

Les appareils dont le numéro de série a été enlevé, altéré, remplacé ou barbouillé ne sont pas couverts par cette garantie. Les garanties de TCL sont valides seulement sur les unités qui sont achetées et utilisées au Canada d'un marchand autorisé TCL.

Cette garantie ne couvre pas les produits de location ou à usage commercial. Cette garantie remplace toutes autres garanties ou ententes exprimées ou sous-entendues. Aucune personne, agent, distributeur, concessionnaire ou compagnie n'est autorisé à changer, modifier ou prolonger les termes de cette garantie de quelque façon que ce soit.

INFORMATION ON CUSTOMER SUPPORT

HD DVD is a new and evolving format, so changes and improvements are possible. To obtain updated information about HD DVD and this product, as well as customer support information about this product, please contact Toshiba Customer Support:

* In the U.S., please call 1 (800) 319-6684 or visit www.tacp.com/customersupport.

* In Canada, please call 1 (800) 268-3404 or visit www.toshiba.ca and click on support.

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