

TOSHIBA

HD-XE 1

HD DVD player



OWNER'S MANUAL



- Introduction
- Connections
- Playback (Basic)
- Playback (Advanced)
- Internet connection
- Others

SAFETY PRECAUTIONS

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: 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.

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.



The mains plug is used as the disconnect device, therefore install the player near the wall outlet so that the mains plug can be accessed easily at all times.

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.

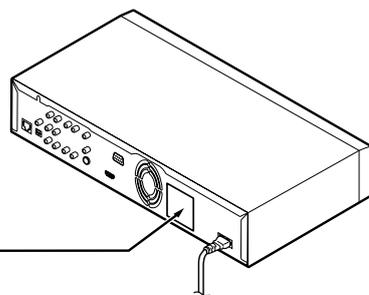
In the spaces provided below, record the Model and Serial No. located on the rear panel of your player.

Model No. _____

Serial No. _____

Retain this information for future reference.

Location of the required label



The rating plate and the safety caution are on the rear of the unit.

Following information is only for EU-member states:

The use of the symbol indicates that this product may not be treated as household waste. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.



IMPORTANT SAFETY INSTRUCTIONS

CAUTION: PLEASE READ AND OBSERVE ALL WARNINGS AND INSTRUCTIONS GIVEN IN THIS OWNER'S MANUAL AND THOSE MARKED ON THE UNIT. RETAIN THIS BOOKLET FOR FUTURE REFERENCE.

This set has been designed and manufactured to assure personal safety. Improper use can result in electric shock or fire hazard. The safeguards incorporated in this unit will protect you if you observe the following procedures for installation, use and servicing. This unit is fully transistorized and does not contain any parts that can be repaired by the user.

DO NOT REMOVE THE CABINET COVER, OR YOU MAY BE EXPOSED TO DANGEROUS VOLTAGE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL ONLY.

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. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
10. Only use attachments/accessories specified by the manufacturer.
11. Do not place a flaming object such as a burning candle on the apparatus.
12. Unplug this apparatus during lightning storms or when unused for long periods of time.
13. 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

14. Do not overload wall outlets; extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
15. Never expose the apparatus to dripping or splashing or place items such as vases, aquariums, any other item filled with liquid, or candles on top of the unit.
16. Keep your fingers well clear of the disc tray as it is closing. Neglecting to do so may cause serious personal injury.
17. Do not place anything on top of this unit.
18. Do not place the apparatus on amplifiers or equipment that may produce heat.
19. Never block or cover the slots or openings in the unit.
Never place the unit:
 - on a bed, sofa, rug or similar surface;
 - too close to drapes, curtains or walls; or
 - in a confined space such as a bookcase, built-in cabinet, or any other place with poor ventilation.The slots and openings are provided to protect the unit from overheating and to help maintain reliable operation.
20. Do not use a cracked, deformed, or repaired disc. These discs are easily broken and may cause serious personal injury and apparatus malfunction.
21. If the apparatus should emit smoke or an unusual odor, 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.
22. During thunderstorms, do not touch the connecting cables or the apparatus.

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. (This will stop the clock. Display "SETUP MENU" by pressing SETUP, and reset the clock (➡ page 52, 60).)

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 VTR, 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 as practical from the TV, radio, or VTR.
- 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 HD DVD and 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 or CD logos. If you happen to experience any difficulty playing an HD DVD, DVD or CD disc on this player, please contact Toshiba customer service.

Some differences

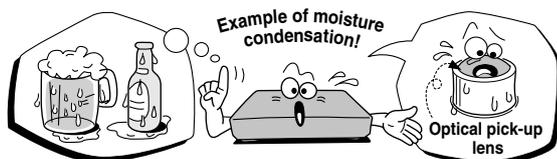
The HD DVD player operates more like a computer and differently than a standard DVD player. In addition to containing a microprocessor, it contains an operating system, random access memory (RAM), and an HD DVD drive. The operating system includes software that is transferred to the RAM when the machine 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.

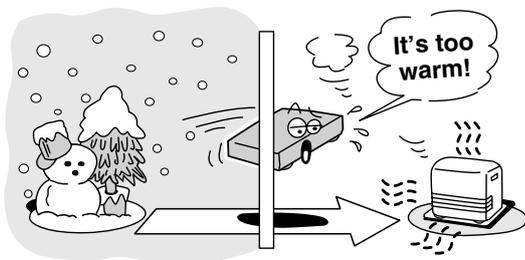
Please read the following carefully.

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.



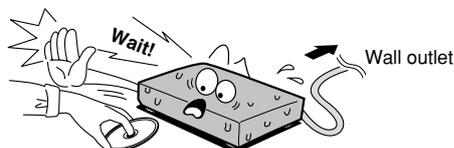
Moisture condensation occurs during the following cases.

- 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 cool air from an air conditioner blows directly on the unit.
- When the unit is moved from an air conditioned room to a hot, humid location.
- 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.

Dolby and the double-D symbol are registered trademarks of Dolby Laboratories.

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

SHARC and Melody are registered trademarks of Analog Devices, Inc.

HD DVD and **DVD** are trademarks of DVD Format/Logo Licensing Corporation.

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, a 60 Hz compatible HDTV display (720p, 1080i, 1080p) 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 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 only; playback of MP3, WMA and other non-CD-DA audio formats are not supported.)

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.

HD DVD discs containing high definition content at a field rate of 50Hz or a frame rate of 25Hz can not be played on this player without a firmware update. Firmware update is expected in the future.

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.

HD output jacks

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

Compatibility notes

- For compatibility, see  page 28.

Certain system requirements

For high definition video playback:

- 60 Hz compatible HD display (some discs may require HDCP capable input)
- HD DVD disc with HD content

For Dolby® Digital Plus and Dolby TrueHD multi-channel audio playback:

- A/V Receiver with HDMI™ multi-channel LPCM capable audio input and 5.1 channel speaker setup.

Certain limitations

Viewing high-definition content and up-converting DVD content may require an HDCP capable input on your display device. 1080p capable display required for 1080p output resolution. Because HD DVD is a new format that makes use of new technologies, certain disc, digital connection and other compatibility and/or performance issues are possible. Some recordable media may not be supported. Dolby Digital Plus, Dolby TrueHD and DTS® support for up to 5.1 channels. DTS-HD support for DTS core only. MP3/WMA audio files not supported. Please see <http://www.highdefinitiondvd.eu/> for more information. Deep Color requires a Deep Color capable display device. Some devices may not be compatible. Features subject to change and delayed availability. The firmware in this player can be updated.

This HD DVD player is manufactured under the HD DVD Format adopted by the DVD Forum. The 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 as well as during the life of this product.

To obtain updated information about AACSS and this product, please contact Toshiba customer service for your country or <http://www.highdefinitiondvd.eu/>.

Customer support

Please contact Toshiba customer service for your country or <http://www.highdefinitiondvd.eu/>.

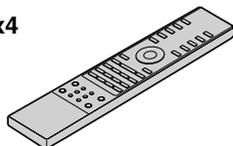
Accessories

Accessories

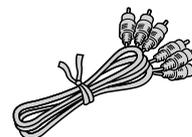
Check that the following accessories are supplied.

Remote control

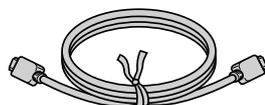
Batteries (R03)x4



Composite audio/video cable

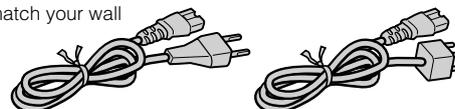


HDMI cable



Power cord

Use either to match your wall outlet.



Caution

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

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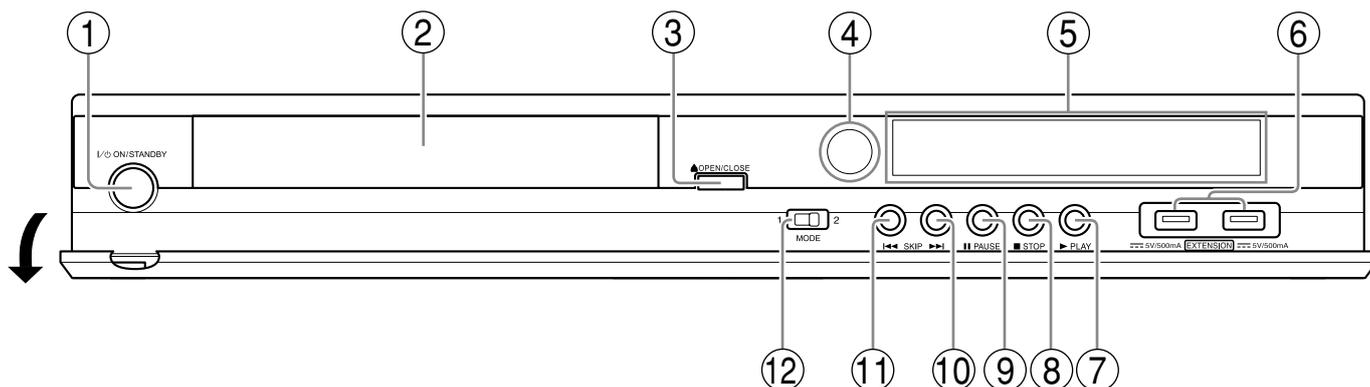
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Index to parts and controls

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.

① **ON/STANDBY button / ON/STANDBY indicator** ➔ page 30

Turns the power on/restores the unit to the standby mode.

② **Disc tray** ➔ page 30

Loads a disc into the disc drive.

③ **OPEN/CLOSE button** ➔ page 30

Opens and closes the disc tray.

④ **Remote sensor** ➔ page 16

⑤ **Front panel display** ➔ page 14

⑥ **EXTENSION ports** ➔ page 41

⑦ **▶ (PLAY) button** ➔ page 31

Starts playback.

⑧ **■ (STOP) button** ➔ page 31

Stops playback.

⑨ **⏸ (PAUSE) button** ➔ page 31

Stops playback momentarily.

⑩ **▶▶ (SKIP) button** ➔ page 35

Skips to the next chapter or track.

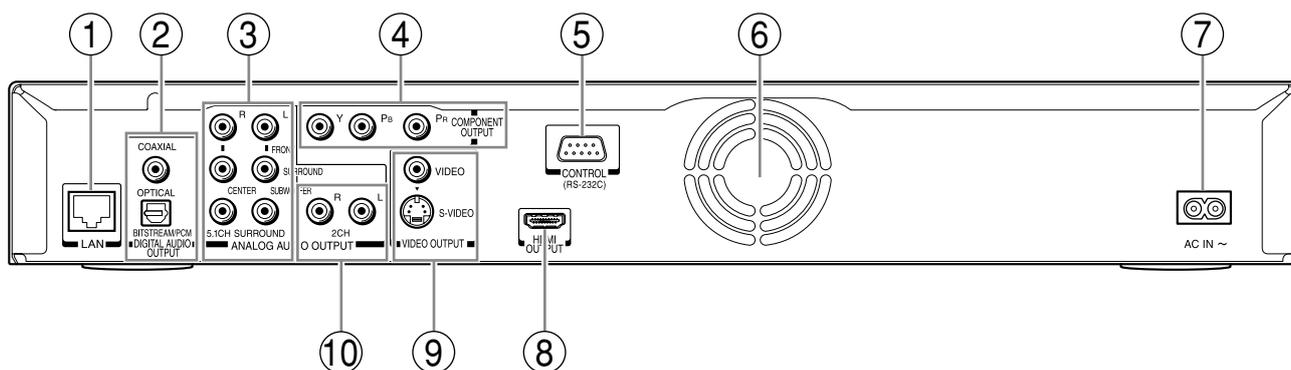
⑪ **◀◀ (SKIP) button** ➔ page 35

Skips to the previous chapter or track.

⑫ **MODE switch** ➔ page 20

Selects the video output jack.

Rear panel



① LAN port ➔ page 46

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

② DIGITAL AUDIO OUTPUT BITSTREAM/PCM (OPTICAL/COAXIAL) 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 ANALOG AUDIO OUTPUT 5.1CH SURROUND jacks ➔ page 26

Connect to an amplifier equipped with 5.1 CH audio input.

④ 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.

⑤ CONTROL (RS-232C) jack

Used for custom control devices.

⑥ Ventilation fan

Do not cover the ventilation holes.

⑦ AC IN socket ➔ page 21, 22

Connect the supplied power cord.

⑧ 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.

⑨ VIDEO OUTPUT (VIDEO, S-VIDEO) jack ➔ page 22

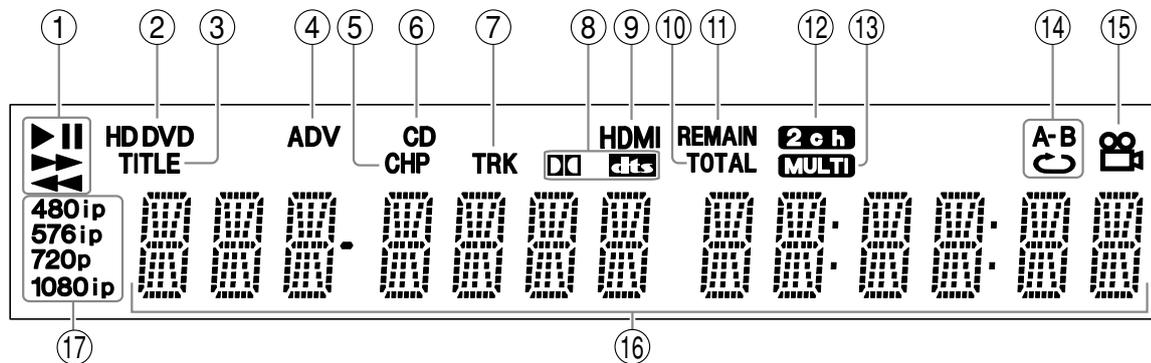
Outputs video signals to a connected TV or amplifier.

⑩ ANALOG AUDIO OUTPUT 2CH jacks ➔ page 22

Outputs audio signals to a connected TV or AV amplifier.

Index to parts and controls (Continued)

Display



- ① **Status indicator**
▶ : Playing ▶▶ : Fast forward playback
⏸ : Pausing ◀◀ : 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 played.
 : Illuminates when DTS sound is played.
- 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
576i : 576 interlace
576p : 576 progressive
720p : 720 progressive
1080i : 1080 interlace
1080p : 1080 progressive

Switching the 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.

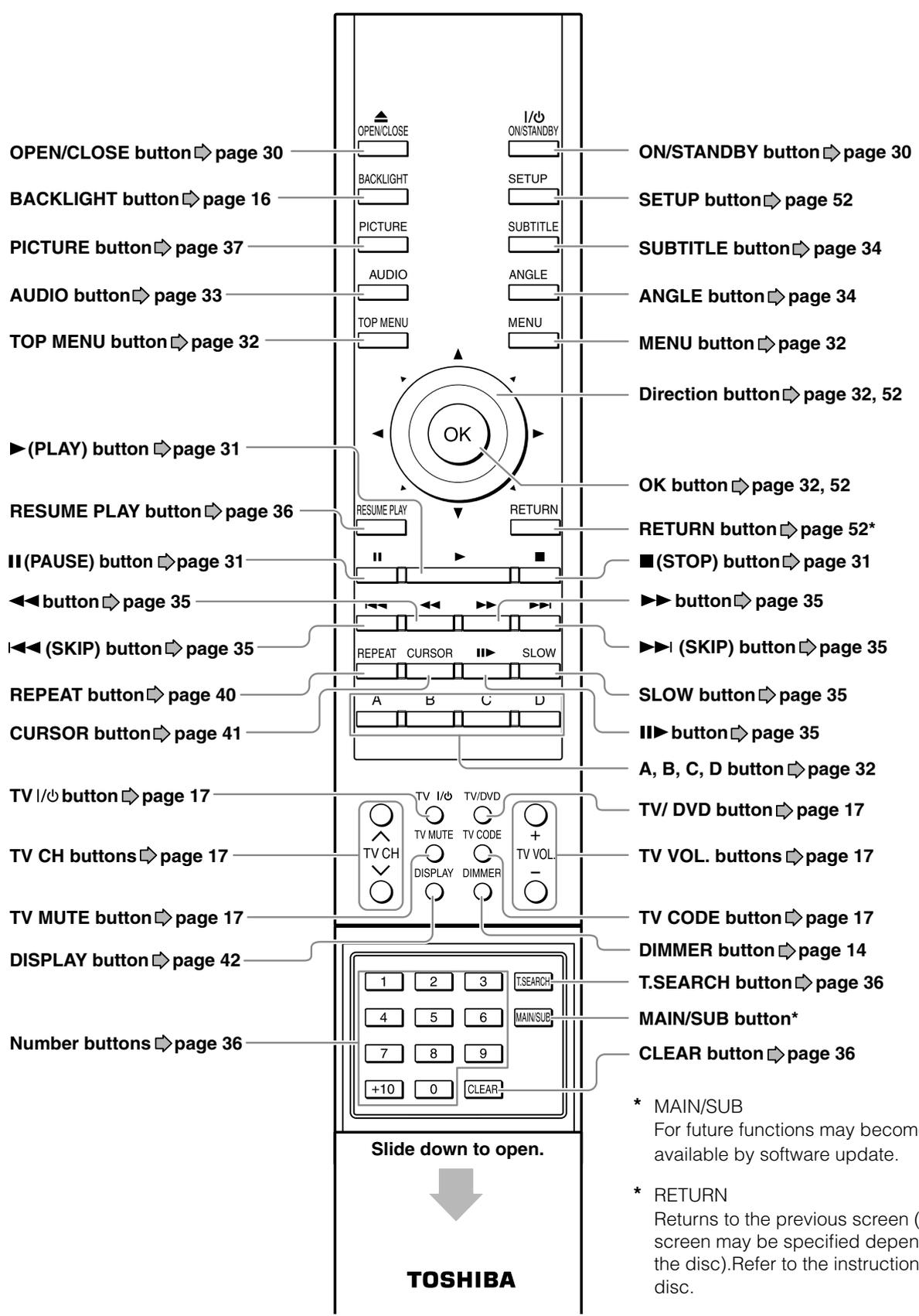
Dimming the display

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

- Normal → Dimmed → Off

- Turning off the power resets this setting.

Remote control



* MAIN/SUB
For future functions may become available by software update.

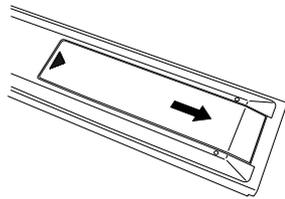
* RETURN
Returns to the previous screen (the screen may be specified depending on the disc). Refer to the instructions of the disc.

Preparation of the remote control

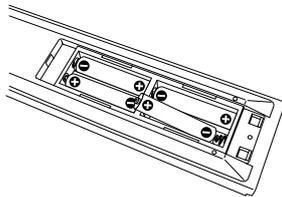
Set up the remote control to operate the player and your TV.

Loading batteries

1 Open the cover.



2 Insert batteries.



- Use 4 batteries (R03 sizes).
- Make sure to match the + and – on the batteries to the marks inside the battery compartment.

3 Close the cover.

Notes

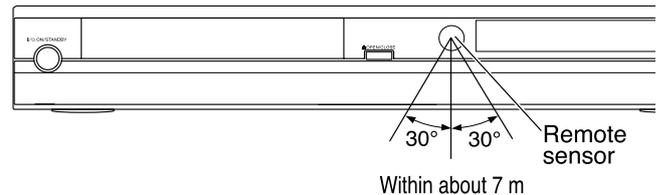
- Do not drop or give the remote control a shock.
- Do not leave the remote control near an extremely hot or humid place.
- Do not spill water or put anything wet on the remote control.
- Do not disassemble the remote control.
- Dispose of batteries in a designated disposal area.
- Batteries should always 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 R03 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.

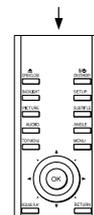
Operating with the remote control

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



Distance: About 7 m from the front of the remote sensor

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



About the remote control backlight

The remote control has a backlight function for conveniently illuminating the buttons when you use the remote control in a dark room, etc.

Lights for approximately 10 seconds when a button is pressed.

The backlight function is off by default.

■ To turn on the backlight function

Press and hold for at least three seconds.

To turn off the backlight function, press and hold again for at least three seconds.

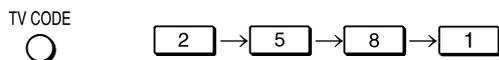
Notes

- Using the backlight function shortens the lifespan of the batteries.
- The backlight function turns off if the batteries in the remote control are replaced.

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 2581



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.

Note

- 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/DVD :

To change the video input

TV I/⏻ :

To turn on and off the TV

TV CH :

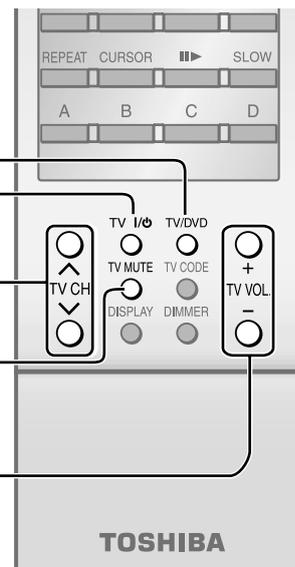
To select the TV channel

TV MUTE :

To mute the TV

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	2581	2601	3281	3491	3771	4291
	4301	4311	4321	4671		
Aiwa	3241					
Akai	2671					
Bang & Olufsen	2621					
Beko	2941	3331	4471			
Blaupunkt	2711	2801				
Brionvega	2621					
Bush	2541	2681	2691	2751	2781	2851
	2861	2881	3291	4261	4481	
Crown	2541	2871	2921			
Daewoo	2541	2881	3221	3271		
Decca	2611					
Ferguson	2761	2841	3351			
Finlux	2601	2611	2621			
Fisher	2671	2981				

Brand name	Brand code					
Funai	2731	2781				
GEC	2591	2611				
Goodmans	2611	2691	2861	2881	3221	3841
Granada	2611	2671				
Grundig	2601	2701	3151	3441	4491	
Hinari	2541	2681	2691	2901		
Hitachi	2591	3301	3471	3501	3511	3701
	3671	4501				
Inno Hit	2611					
JVC	2861	3361	3591	4511		
LG Goldstar	2491					
Loewe	2621	2771	2961	3311		
Luxor	2701					
Marantz	2991					
Matsui	2541	2581	2611	2651	2671	2691
	2781	2851	2861	3151		
Metz	2621					

(Continued)

Preparation of the remote control (Continued)

Brand name	Brand code				
Mitsubishi	2621	2701	2961	3371	4521
National	2701				
Orion	2691	2781	2851	3381	
Panasonic	2701	2711	2741	3001	3251 3531
	3551	3761	3911	3951	
Philco	2621				
Philips	2561	2571	2591	2621	2811 2821
	2881	2991	3461	3581	3731 3881
	3981	4531	4541	4551	
Pioneer	2761	3481	3681	3921	3931 3941
Saba	2621	2761	2841	3321	
Saisho	2541	2651	2691	2731	
Samsung	2541	2631	2731	2991	3161 3231
	3521	3541	3711	3721	3901 3961
	4271	4561			
Sanyo	2611	2671	3391		
Schneider	2571	2681	2811	2861	3991 4571
	4581	4591	4601	4611	

Brand name	Brand code				
SEG	2731	3051			
Seleco	2661	2721			
Sharp	2641	3401	3611	3631	3781 3791
	3801	3811	3821	3831	3971
Singer	2621				
Sinudyne	2551	2621	2651	2691	3011 3051
Sony	2551	2951	3621	3641	3651 3871
	3891	4281	4621		
Tatung	2611				
Technics	2711	3001			
Telefunken	2841	3421			
Tensai	2681	2781			
Thomson	6641	2701	2761	2831	3431 3601
	4631	4641	4651	4661	
Thorn	2581	2611	2951	2961	3221
Universum	2731				
Zanussi	2661				

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		Audio CD
	DVD video disc		CD-RW (CD-DA format)
	DVD-RW		CD-R (CD-DA format)
	DVD-R		

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 AV system.

Connecting to a TV

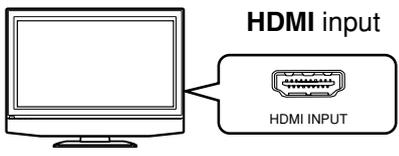
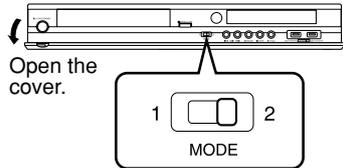
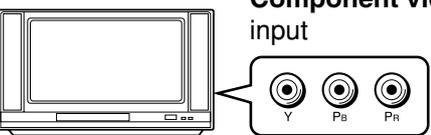
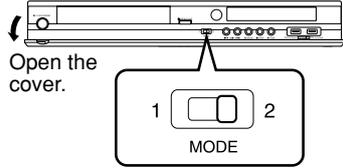
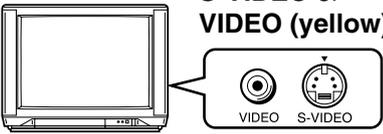
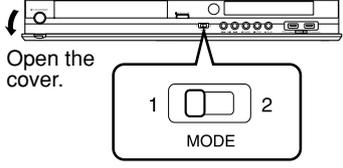
Connecting to an audio system

Connecting to a TV

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

To view high definition content, 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. Set the **MODE** switch according to your connection.

TV input	High definition video	MODE switch on the player Incorrect setting may disable the player's output.	Page
 <p>HDMI input</p> <p>Most recommended*</p>	<p>Viewable. To view 1080p output, make this connection.</p>	 <p>Open the cover.</p> <p>Be sure to set while the power is off.</p>	21
 <p>Component video input</p>	<p>Viewable. (Some discs may be down converted or require HDMI connection.) Not compatible with 1080p. To view 1080p output, select HDMI connection.</p>	 <p>Open the cover.</p> <p>Be sure to set while the power is off.</p>	22
 <p>S-VIDEO or VIDEO (yellow) input</p>	<p>Down converted. (Some discs may require HDMI connection.)</p>	 <p>Open the cover.</p> <p>Be sure to set while the power is off.</p>	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, 1080i or 1080p or up-converted 480i/576i or 480p/576p) 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/576i or 480p/576p 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.

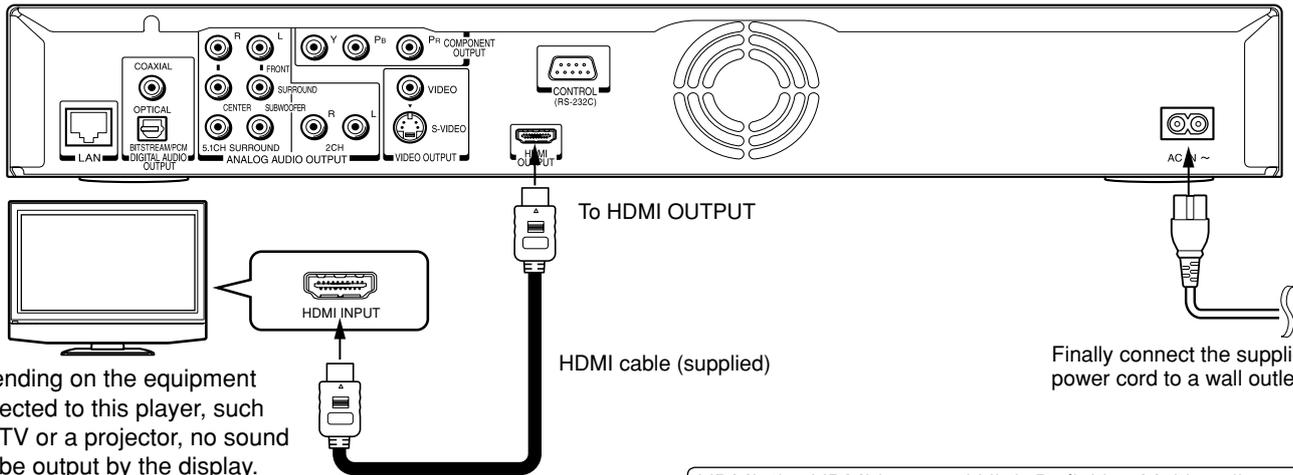
Notes on connection

- 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 VTR, TV/VTR 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. Use a commercially available authorized HDMI cable.



Depending on the equipment connected to this player, such as a TV or a projector, no sound may be output by the display. In this case, set "Digital Out HDMI" (▶ page 55) to "PCM". If sound still is not heard, use analog output.

HDMI cable (supplied)

Finally connect the supplied power cord to a wall outlet.

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

This player supports simultaneous output of video on its HDMI and component video ports. However, some discs may restrict output of video on the component video ports when viewing high definition content or up-converted DVD content. The resolution on the HDMI output will be the same as the resolution output on the component video output. Thus, because the HDMI output can change automatically to match the maximum available resolution of your display, if you connect both the HDMI output and component output, the resolution on the component output will change if the HDMI output Auto-adjusts.

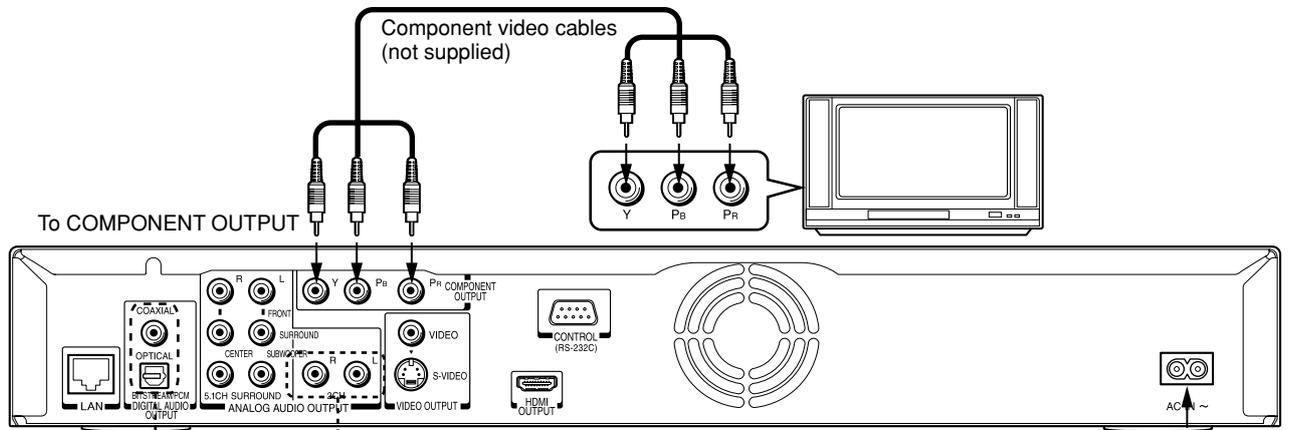
After completing the connection, proceed to ▶ page 23 to make the setting.

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, an 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 confirm compatibility of a cable when connecting a Deep Color compatible display device.

Connecting to a TV (Continued)

Via component video input



To use the digital output, connect either of these jacks to an audio input on a device capable of processing a Dolby Digital, DTS bitstream or PCM audio. (▶ page 25)

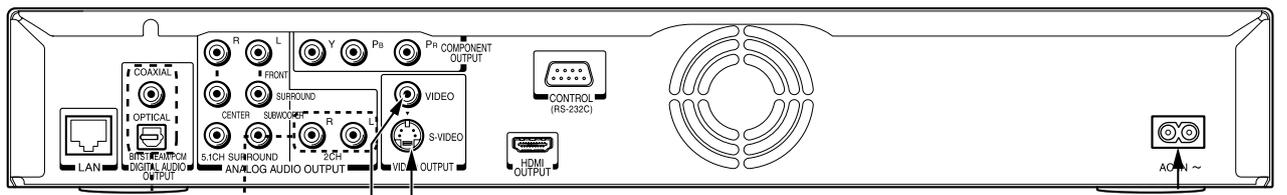
To use the analog sound output, connect these jacks to audio input jacks on your TV using the audio cable, and set "Speaker Setting" (▶ page 56) to "2ch".

Finally connect the supplied power cord to a wall outlet.

This player supports simultaneous output of video on its HDMI and component video ports. However, some discs may restrict output of video on the component video ports when viewing high definition content or up-converted DVD content. The resolution on the HDMI output will be the same as the resolution output on the component video output. Thus, because the HDMI output can change automatically to match the maximum available resolution of your display, if you connect both the HDMI output and component output, the resolution on the component output will change if the HDMI output Auto-adjusts.

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

Via S-VIDEO or VIDEO (yellow) input



To use the analog sound output, connect these jacks to audio input jacks on your TV using the audio cable, and set "Speaker Setting" (▶ page 56) to "2ch".

Connect either. To VIDEO To S-VIDEO

Finally connect the supplied power cord to a wall outlet.

* To use the digital output, connect either of these jacks to an audio input on a device capable of processing a Dolby Digital, DTS bitstream or PCM audio. (▶ page 25)

480i/576i output only regardless of the resolution settings or the connections of other output jack.

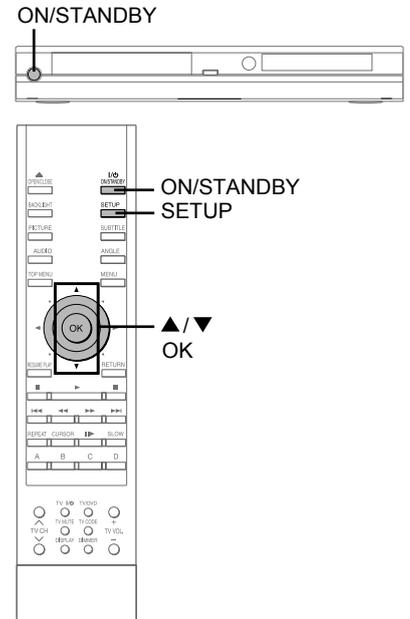
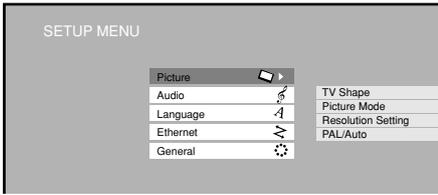
After completing the connection, proceed to ▶ page 23 to make the setting.

Step 3

Configure settings for your display.

Setting of video output resolution of this player

- 1 Turn on the TV and select the input to which the player is connected.
- 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.

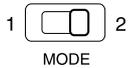
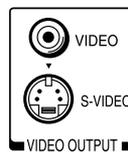
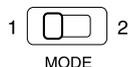
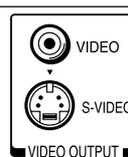
TV input	“Resolution Setting”				
<p>HDMI input</p>	Select the resolution. e.g. <table border="1"> <tr><td>up to 480p/576p</td></tr> <tr><td>up to 720p</td></tr> <tr><td>up to 1080i</td></tr> <tr><td>up to 1080p</td></tr> </table>	up to 480p/576p	up to 720p	up to 1080i	up to 1080p
up to 480p/576p					
up to 720p					
up to 1080i					
up to 1080p					
<p>Component video input</p>	Select the resolution according to the performance of the connected TV. e.g. <table border="1"> <tr><td>up to 480p/576p</td></tr> <tr><td>up to 720p</td></tr> <tr><td>up to 1080i</td></tr> <tr><td>up to 1080p</td></tr> </table> Do not select “up to 1080p”.	up to 480p/576p	up to 720p	up to 1080i	up to 1080p
up to 480p/576p					
up to 720p					
up to 1080i					
up to 1080p					
<p>S-VIDEO or VIDEO (yellow) input</p>	“Resolution Setting” selection is not necessary.				

- You may find that setting the output resolution of the player to match as closely as possible the native resolution of your display provides the best picture performance (e.g., 720p for 720p and 1080p for 1080p).
- Refer to the table on the next page as well.

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

Connecting to a TV (Continued)

■ Settings and actual output resolution

MODE switch (⇨ page 20)	Output jacks on the player	“Resolution Setting” (⇨ page 23)			
		up to 480p/576p	up to 720p	up to 1080i	up to 1080p
		480p/576p	720p (maximum) ¹	1080i (maximum) ¹	1080p (maximum) ¹
		480p/576p ²	720p ²	1080i ²	No video output.
		No video output.			
		No video output.			
		480i			
		480i			

¹ Maximum of the player’s actual resolution according to a connected HDMI TV. The order of precedence is 1080p>1080i>720p>480p/576p.

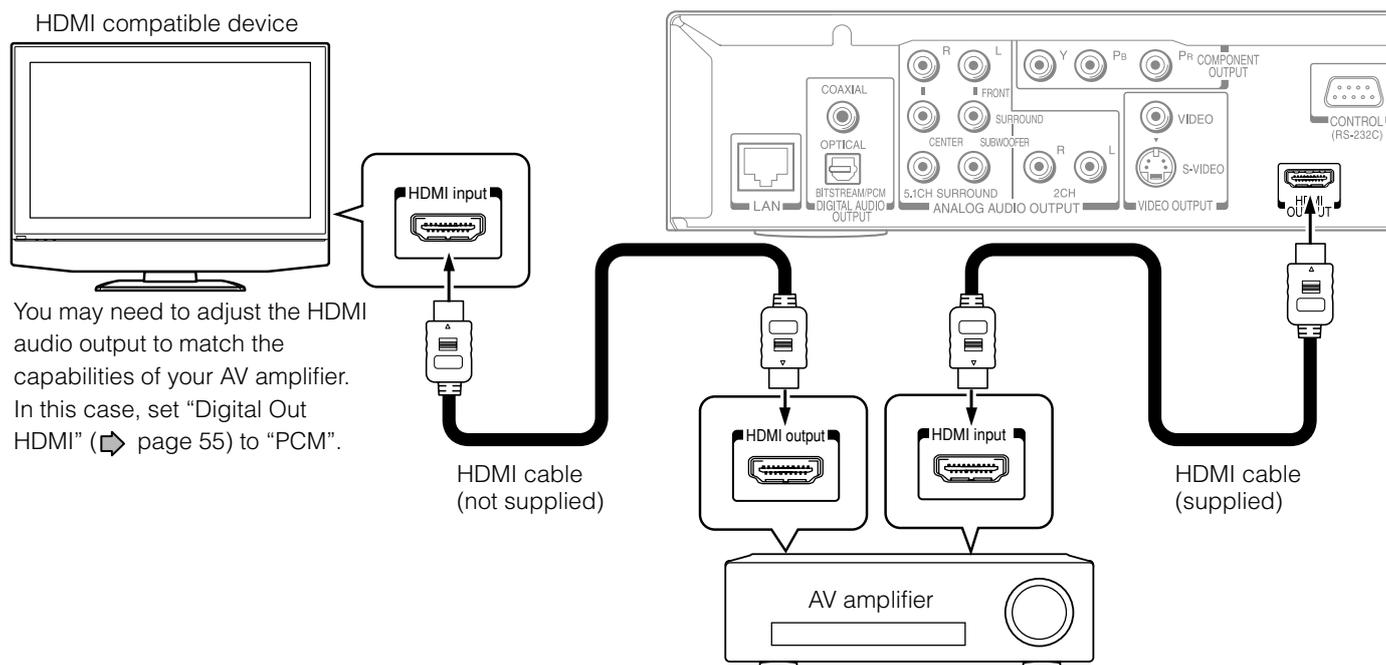
² Fixed. However, when an HDMI TV is also connected to the player, the player will select resolution in the same manner as in HDMI connection, i.e., ¹.

Connecting to an audio system

You can enjoy the benefits of Dolby Digital Plus or Dolby TrueHD by connecting the HDMI output of your player to an AV receiver with an HDMI audio input. You can listen to down-converted Dolby Digital Plus and Dolby TrueHD as well as Dolby Digital and DTS using a receiver with Dolby Digital and DTS decoding capabilities and an optical digital input.

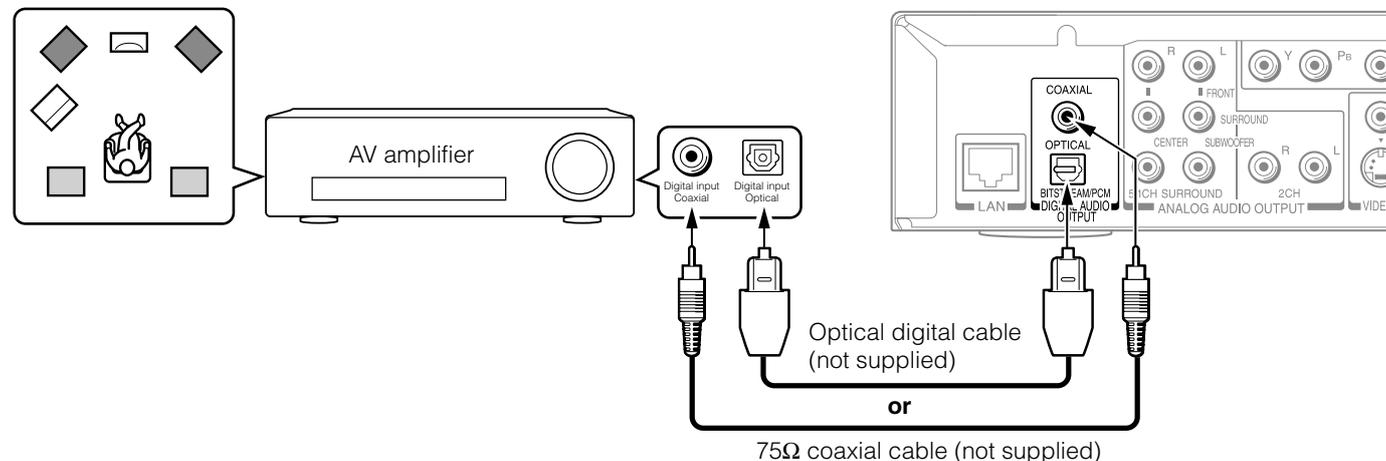
Via HDMI output

Make the connection as below, and set “Digital Out HDMI” (➡ page 55).



Via digital audio output

Make the connection as below, and set “Digital Out SPDIF” (➡ page 55).



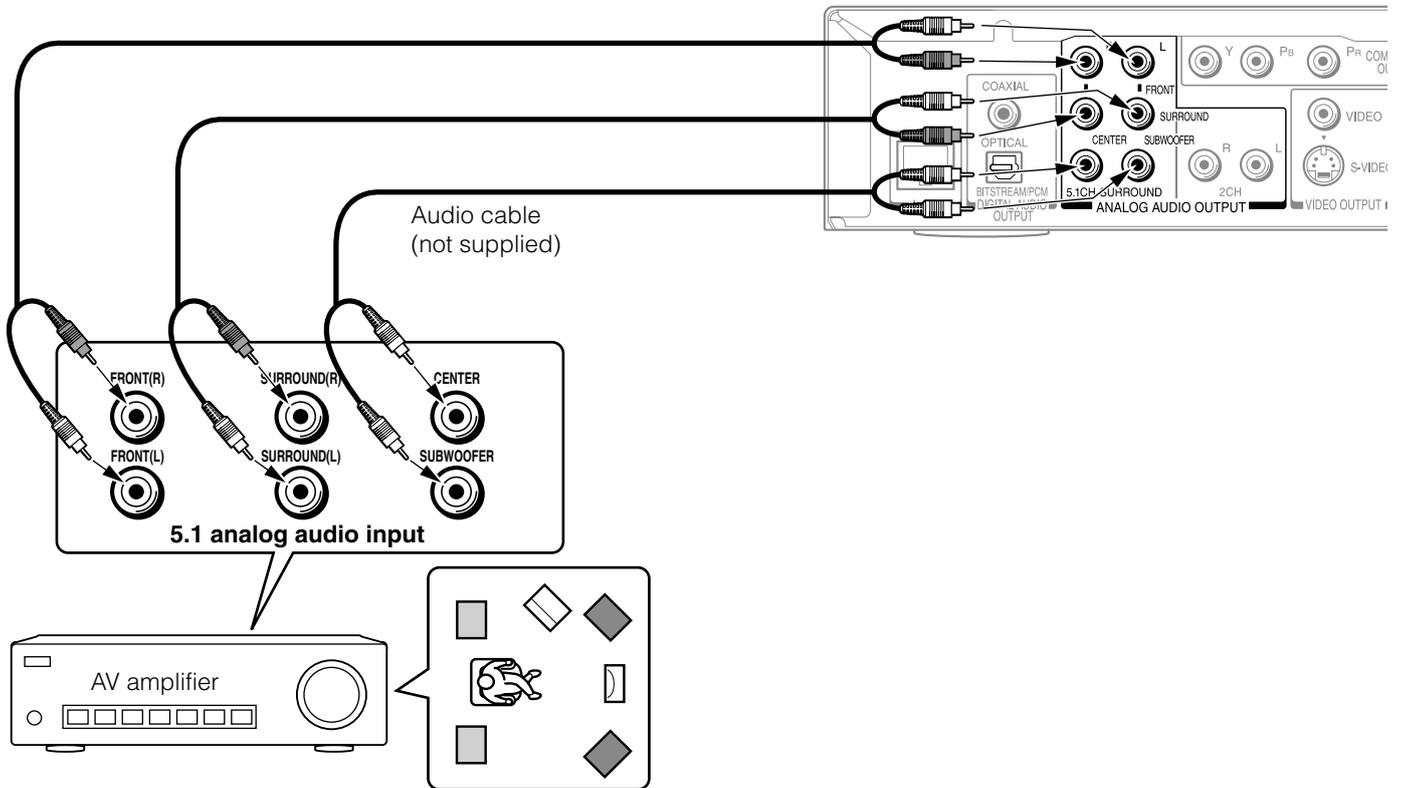
Caution

- 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 Out SPDIF” (➡ page 55) to “PCM”. Otherwise, high volume sound may damage your hearing as well as the speakers.

Connecting to an audio system (Continued)

Via 5.1ch analog audio output

Make the connection as below, and set "Speaker Setting" (➡ page 56).



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.

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

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

Changing picture quality

Disc compatibility

Pre-recorded discs

Disc	Specification	
HD DVD video disc 	<ul style="list-style-type: none"> • 12cm (4¾ in.) 	
DVD video disc 	<ul style="list-style-type: none"> • 12cm (4¾ in.)/ 8cm (3¼ in.) • Region number 2 or ALL 	The region number of this HD DVD player is 2. 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 2, disc playback will not be allowed by the player.
Audio CD 	<ul style="list-style-type: none"> • 12cm (4¾ in.)/ 8cm (3¼ in.) 	

Recordable discs you can play on this player

Disc	Specification
DVD-RW  Except Ver. 1.0	<ul style="list-style-type: none"> • DVD VR mode recording (CPRM compatible discs supported.) • 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 supported.) • 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 PAL/NTSC colour 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.
- MP3 and WMA audio formats are not supported.
- Blu-ray Discs cannot be played on this player.

 and  are trademarks of DVD Format/Logo Licensing Corporation.

Compatibility notes

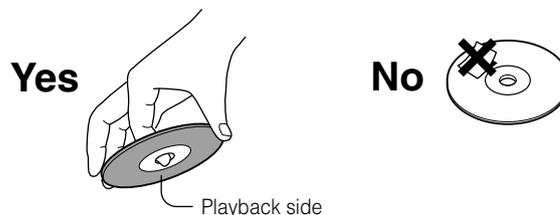
- Because HD DVD is a new format that makes use of new technologies, certain disc, digital connection and other compatibility and/or performance issues are possible. If you experience compatibility problems, please contact Toshiba customer service.
- HD DVD discs containing high definition content at a field rate of 50Hz or a frame rate of 25Hz can not be played on this player without a firmware update. Firmware update is expected in the future.
- 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, Dolby TrueHD 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.
- 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 61 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 may cause picture and/or sound deterioration or prevent playback. Wipe the disc from the centre 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 colour from red (standby mode) to blue (operation).

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

Note

- When you power on this player for the first time, the setting screen will appear. Please refer to  page 52 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.

Turning the power off

1 Press **ON/STANDBY.**

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

Note

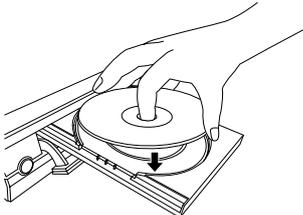
- If the player freezes for about 15 minutes or more and will not respond to any buttons, holding down ON/STANDBY button on the front panel for about 10 seconds can force the player to turn off. However, this is an emergency measure, which may cause damage to the player. Avoid casual use of this measure.

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 Toshiba customer service.

Playing a disc

HD DVD	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)

DVD-RW DVD-R

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

(“Playing from a menu in a recorded disc”, ➡ 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

- If absence of operation or picture pausing continues for about 20 minutes, this player turns itself off. To operate again, press ON/STANDBY button to turn the player on.

TOSHIBA

Playing a disc (Continued)

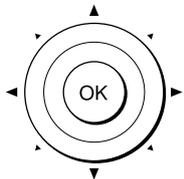
Playing from the top menu

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.

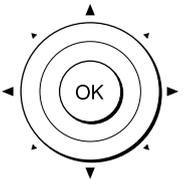
Playing from a menu in a recorded disc

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

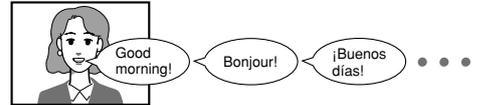
- Disc menus vary depending on the disc or the recording device. Some discs may not contain a disc menu.
- Discs recorded in DVD VR mode display the recorded contents not in thumbnails but in a list. Select an item on the list and press OK button.



Selecting the sound

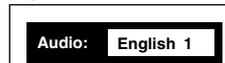
HD DVD DVD-Video DVD-RW DVD-R

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 62)

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 57). Depending on a disc, a specific type of audio the disc has is output.
- Immediately after you have switched audio output modes, there may be a temporary discrepancy between the display and actual sound.

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**.

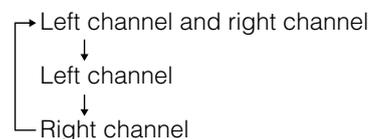
- The current audio setting appears.
- The language code appears instead of the language name. Refer to the list of languages and their abbreviations. (➔ page 62)

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

Each time you press the button, the sound changes.

e.g.

Stereo sound contents



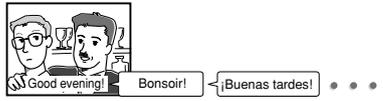
Playing a disc (Continued)



Selecting subtitles

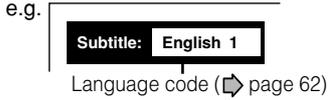
HD DVD | DVD-Video

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.



Some HD DVD video discs may not display this window.

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

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.

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 57). 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.

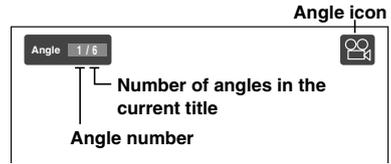
Selecting the camera angle

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.



Some HD DVD video discs may not display this window.

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

Introduction

Connections

Playback (Basic)

Playback (Advanced)

Internet Connection

Others

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

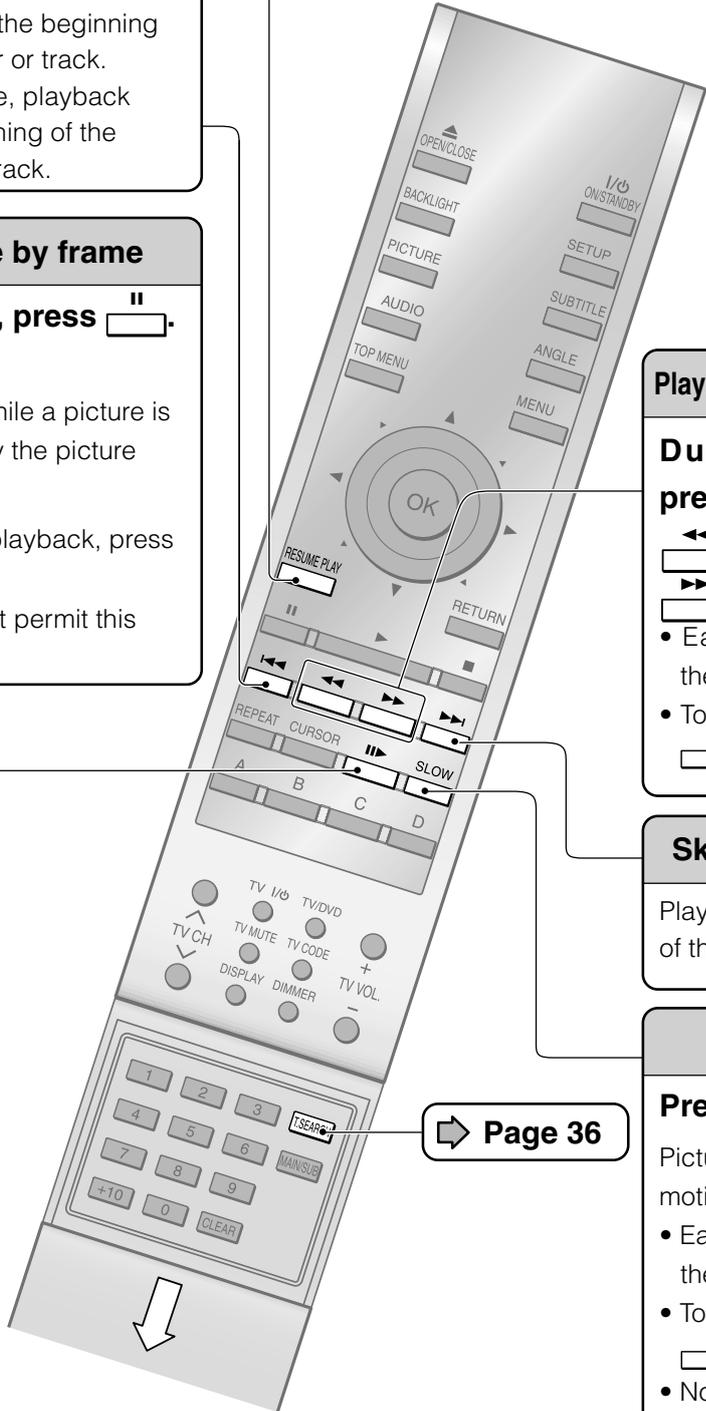
During playback, press .

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

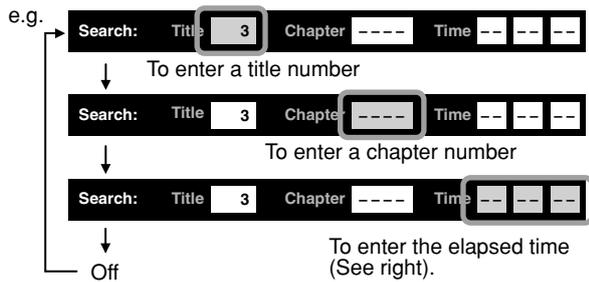
Playing at various speeds (Continued)

Locating by entering a section number

HD DVD	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.

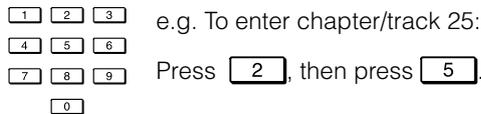
1 Press **T.SEARCH** repeatedly to select the area you want to input.



• 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.



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

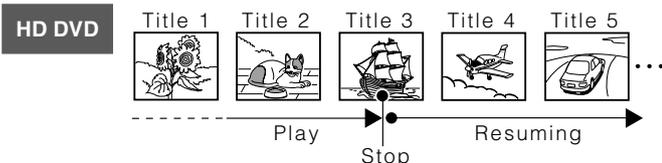
3 Press **OK**.

Playback starts from the selected section.

Notes

- Some discs may not permit these operations.
- When the ADV indicator on the front panel is illuminated, these features are not available.

Resuming playback from the location last stopped (Title resume)



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 **RESUME PLAY** after stopping playback, the resume feature is canceled.

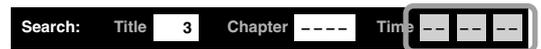
Locating by entering elapsed time

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

1 Press **T.SEARCH**.

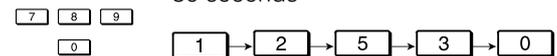
You may have to press repeatedly, depending on a disc. Press the button until the cursor moves to "-- --" area.

e.g.



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

1 2 3 e.g. To enter 1 hour, 25 minutes, and
 4 5 6 30 seconds



• Pressing CLEAR resets the numbers.

3 Press **OK**.

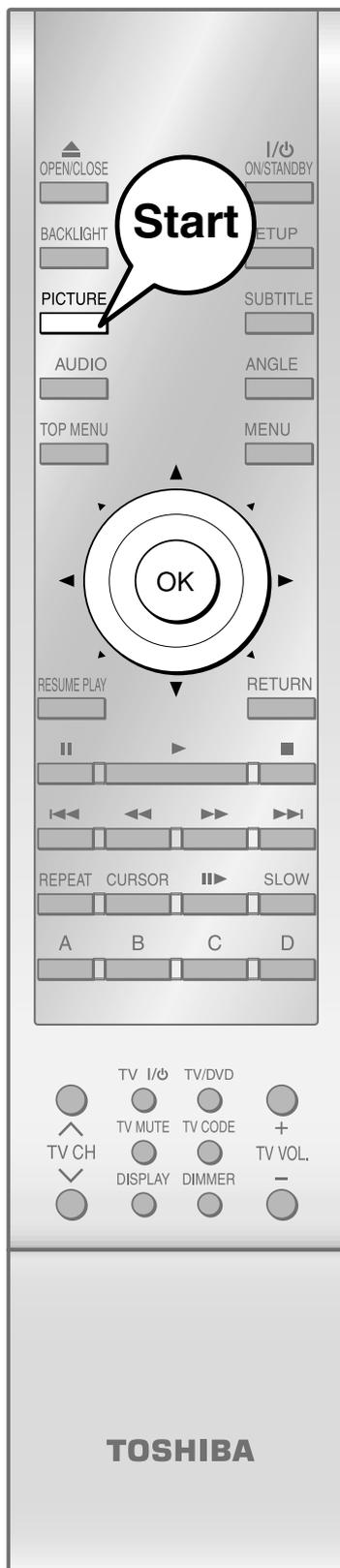
Playback starts from the specified location.

Notes

- Resume feature cannot function when:
 - you select a disc menu language (page 57) or change the parental lock setting (page 59).
 - 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.
- While the ADV indicator on the front panel illuminates, this feature is not available.

Changing picture quality

HD DVD DVD-Video DVD-RW
DVD-R



You can adjust picture quality and save the adjustment values up to 3 sets. These may be used, e.g. for each preference of 3 separate people or for 3 favorite genres of contents.

Adjusting picture quality

- 1** Press **PICTURE** .
 The menu appears.

Picture Setting	
1	Edit
2	Edit
3	Edit
- 2** Press **▲/▼/◀/▶** to select "Edit" of "1", "2" or "3", then press **OK** .
- 3** Press **▲/▼** to select the item (see below), then press **OK** .
- 4** Press **◀/▶** to change the value.
 You can scroll the items by **▲/▼** .
- 5** When complete, press **PICTURE** .
 See the next page for selecting of the picture quality.

Item	Value
Contrast	(-7) Weaker ↔ Stronger (+7)
Brightness	(0) Darker ↔ Brighter (+14)
Color	(-7) Duller colour ↔ Brighter colour (+7)
Tint	(-7) Red ↔ Green (+7)
Selective Color Enhancement	(-7) Duller in certain colour ↔ Brighter in certain colour (+7)
Edge Enhancement	(OFF/1/2) (1: Low, 2: High) Effect to enhance picture edges.
Mosquito NR*	(OFF/ON) Reduction of mosquito (scattering) noise produced in MPEG compression process.
Block NR*	(OFF/ON) Reduction of block noise, which may appear especially on fast-moving pictures, produced in MPEG compression process.
Random NR*	(OFF/ON) Reduction of occasional and irregular noise.

* Not effective in HD DVD disc playback.

Changing picture quality (Continued)

Selecting picture quality

At step 2 (➔ page 37), select the number (“1”, “2” or “3”), then press .

Playback picture reflects the selected picture quality.

4 Playback (Advanced)

Playback variations and other functions.

Repeat playback

EXTENSION ports

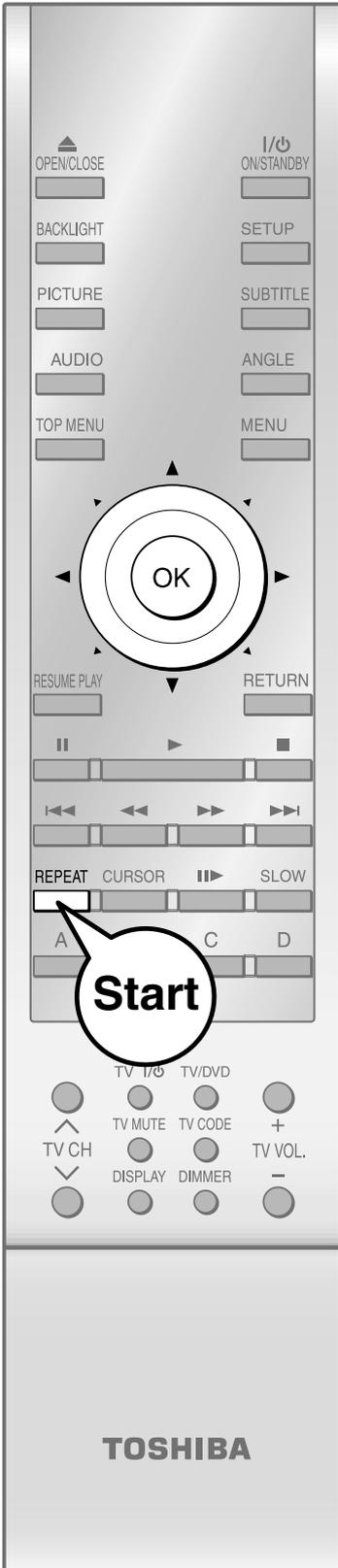
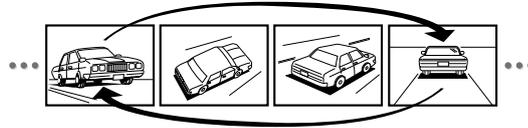
Using the cursor function

Checking the current status and settings

Repeat playback

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

You can repeat a desired section.



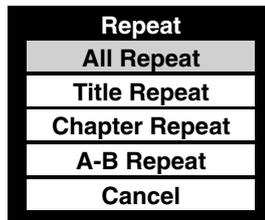
1 Press .

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 .

Repeat playback starts.

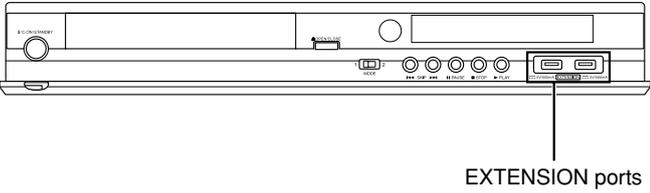
Notes

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

EXTENSION ports

HD DVD

The EXTENSION ports may be used in the future for additional control options.



Using the cursor function

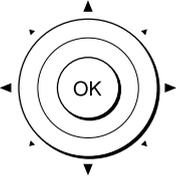
HD DVD

Future HD DVD discs may include game software and drawing software. If they do you can use the cursor function for some software.

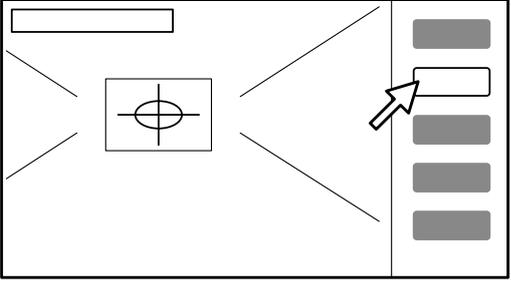


1 Press **CURSOR** while a disc with support for cursor use is playing.

2 Use the eight direction buttons to move the cursor.



Example: Game/drawing software

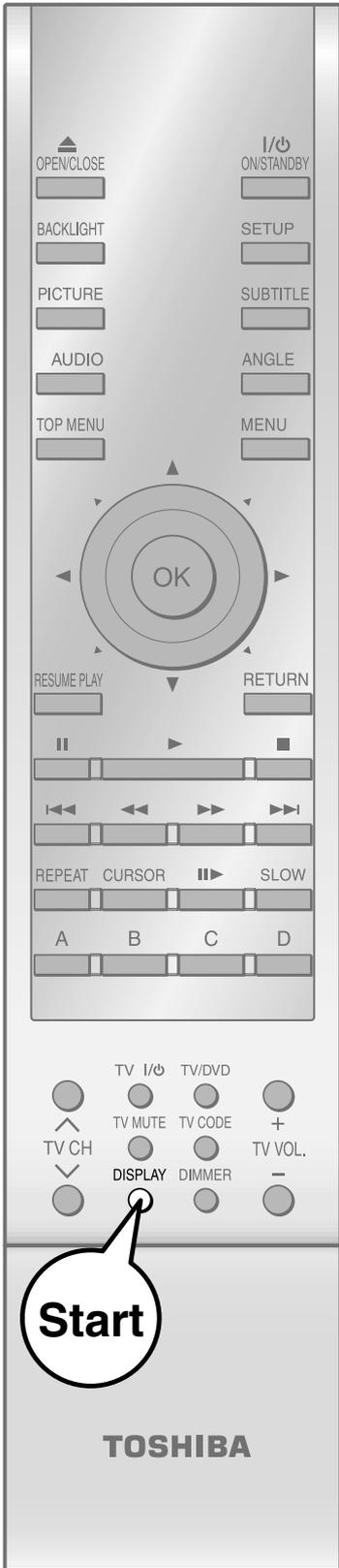


Move the cursor to select the game target or selection item. For details on actual operations, also refer to the operations guide for the disc.

Checking the current status and settings

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

You can confirm operational status and setting details.



1 Press  .

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

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

e.g.

▶	Title 0002	00:19:13	◂	Elapsed time of a title
	Chapter 0003	00:00:28	◂	Elapsed time of a chapter
	Video Codec: MPEG4AVC	◂	Video codec	
	Audio: English 1	◂	Language setting	
	Subtitle: None	◂	Subtitle setting	
	Angle: 1/1	◂	Angle number	
	Video Output: 1080i	◂	Definition	
	Audio Output: Digital Bitstream	◂	Sound output setting	

*The subtitle setting shows a language code (▶ page 62).

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

e.g.

▶	TRACK 002	00:03:12 / 00:05:16
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5 Internet connection

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

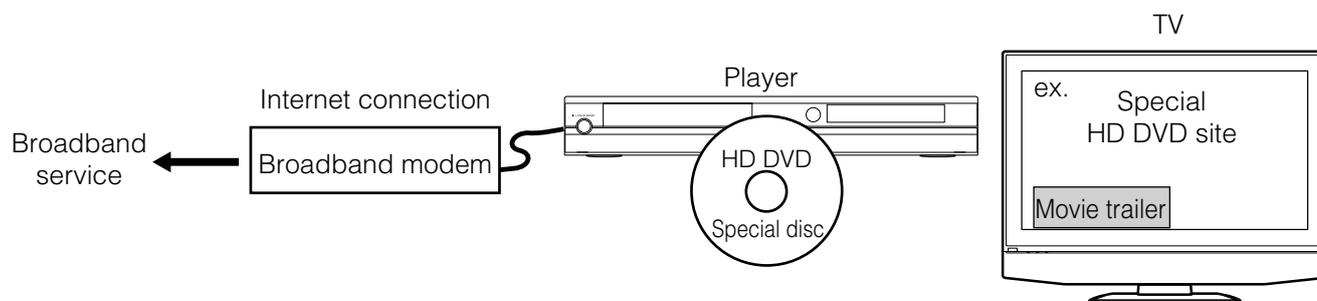
Internet connection feature (Outline)

Internet connection feature (Preparation)

Internet connection feature (Operation)

Internet connection feature (Outline)

You may use the internet connection feature to update the player's firmware. See [page 61](#).
 Future HD DVD discs may enable you to access special HD DVD sites, if you connect the player to the Internet via an always-on broadband connection. For example, if an HD DVD site includes content such as links to future movie trailers, you can watch the content on the player via the Internet.
 You do not need to connect to a PC to use this function.



Before using

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

Connection requirement

Always-on broadband internet connection.

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 wish to use a wireless network to connect the player, 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.

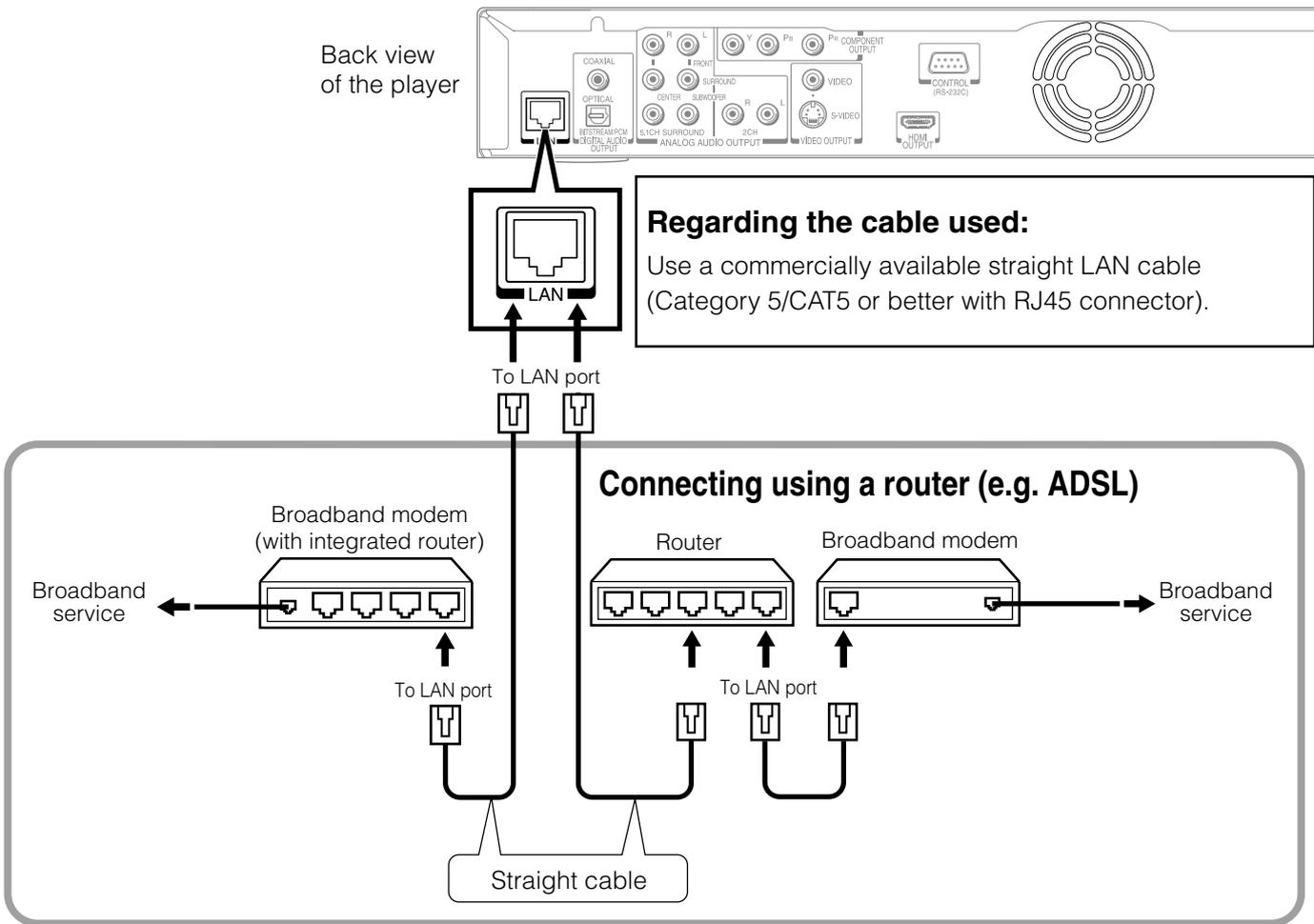
- Even if the player is properly connected and configured, some internet contents may not operate properly because of internet congestion, the quality or bandwidth of your internet service, problems at the provider of the content or compatibility issues.
- Some internet connection operations may not 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.
- A DSL 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

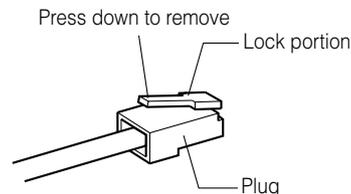
Connect the player to the Internet via an always-on broadband connection. In addition to accessing special HD DVD sites, this function is used when updates are available for the control program (firmware) of the player.

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 a 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

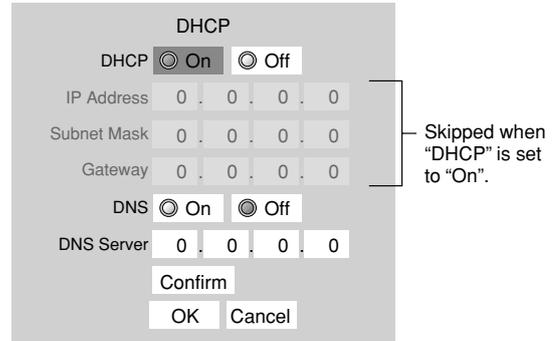
Select the speed according to the specification of your LAN.

5th Cookie setting

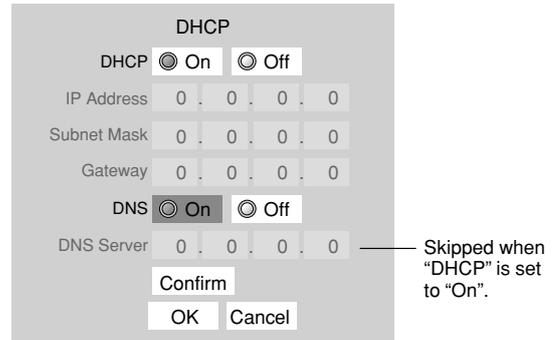
Select whether you accept "cookies" or not.

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.



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



- 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).

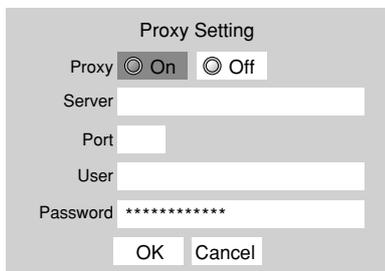
- c) Set "DNS" to "Off" then press OK button.
- d) Input the address into "DNS Server".
This sets the DNS server to be used by the player.
e.g.: 192.168.1.1
- e) Press OK button.

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 wish to 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.

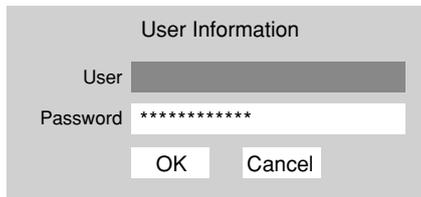
Note

- If you select to accept "cookies," the HD DVD internet services you use may record or track information about your use of the player and/or those sites. If you do not choose to allow cookies, some or all features of a site may not properly function.

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 for your name by pressing ▲/▼ buttons.
 To shift the position, press ◀/▶ buttons.
 Up to 16 characters can be input.
 Press OK button.
- 4 Select "Password" then press OK button.
 Input your password in the same manner as step 3.
 Up to 16 characters can be input.
 Press OK button.
- 5 Select "OK" then press OK button.
 - Use a password that others cannot easily guess.
 - Do not use the same password you use for other services.

Mac Address

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

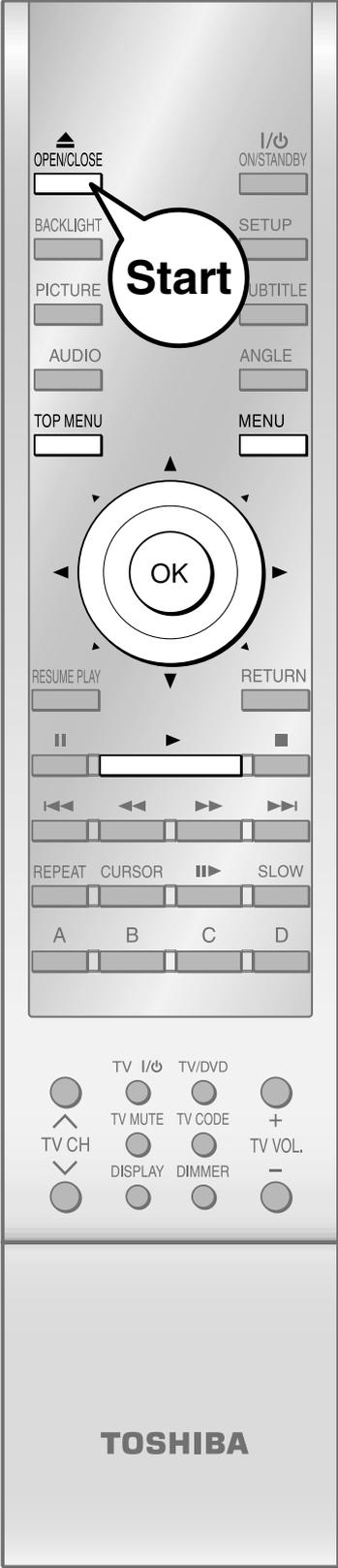
- 1 On "Ethernet" menu, press ▲/▼ buttons to select "Mac Address" then press OK button.
 The MAC address appears.

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 61 for information.
- Some applications may require additional bandwidth.

Internet connection feature (Operation)

HD DVD



Preparation

Connect and configure the player to access the Internet beforehand (⇨ pages 46 to 48).

- 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 .

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

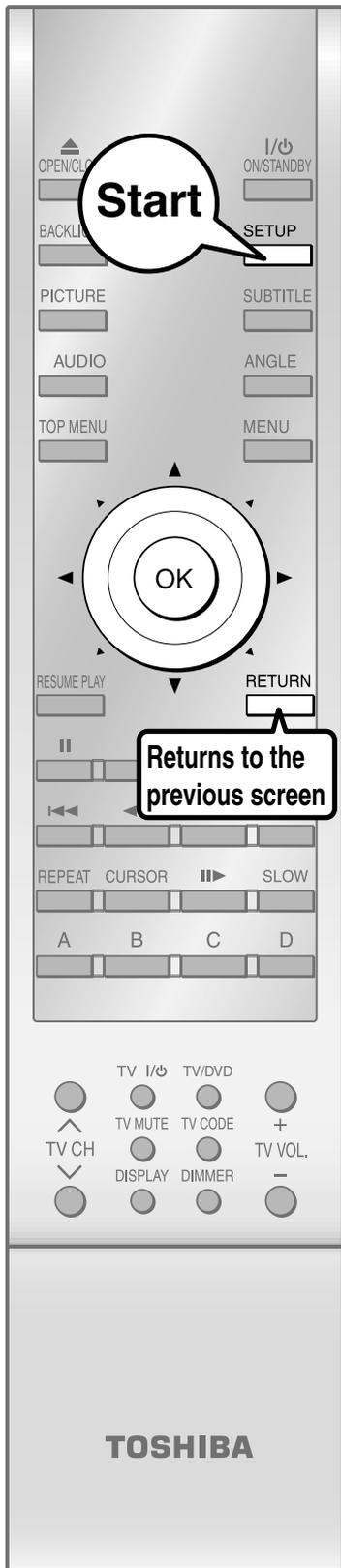
License information on the software used in the TOSHIBA HD DVD player

Before calling service personnel

Specification

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 54, 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	<table border="1"> <tr> <td>HD DVD</td> <td>DVD-Video</td> <td>DVD-RW</td> <td>DVD-R</td> </tr> <tr> <td>CD</td> <td></td> <td></td> <td></td> </tr> </table>	HD DVD	DVD-Video	DVD-RW	DVD-R	CD				To select a picture size according to the aspect ratio of your TV.	54
	HD DVD	DVD-Video	DVD-RW	DVD-R								
	CD											
	Picture Mode	<table border="1"> <tr> <td>HD DVD</td> <td>DVD-Video</td> <td>DVD-RW</td> <td>DVD-R</td> </tr> </table>	HD DVD	DVD-Video	DVD-RW	DVD-R	To select the system of output signal corresponding to playback source. (Only when connected to a PROGRESSIVE TV.)	54				
HD DVD	DVD-Video	DVD-RW	DVD-R									
Resolution Setting	<table border="1"> <tr> <td>HD DVD</td> <td>DVD-Video</td> <td>DVD-RW</td> <td>DVD-R</td> </tr> </table>	HD DVD	DVD-Video	DVD-RW	DVD-R	To select the resolution of the player's output, according to the connected TV.	23					
HD DVD	DVD-Video	DVD-RW	DVD-R									
	PAL/Auto	<table border="1"> <tr> <td></td> <td>DVD-Video</td> <td>DVD-RW</td> <td>DVD-R</td> </tr> </table>		DVD-Video	DVD-RW	DVD-R	To select the video system of a disc.	54				
	DVD-Video	DVD-RW	DVD-R									
Audio	Digital Out SPDIF	<table border="1"> <tr> <td>HD DVD</td> <td>DVD-Video</td> <td>DVD-RW</td> <td>DVD-R</td> </tr> <tr> <td>CD</td> <td>CD-RW (CD-DA)</td> <td>CD-R (CD-DA)</td> <td></td> </tr> </table>	HD DVD	DVD-Video	DVD-RW	DVD-R	CD	CD-RW (CD-DA)	CD-R (CD-DA)		To select the output sound format when connecting the DIGITAL AUDIO OUTPUT jack.	55
	HD DVD	DVD-Video	DVD-RW	DVD-R								
	CD	CD-RW (CD-DA)	CD-R (CD-DA)									
	Digital Out HDMI	<table border="1"> <tr> <td>HD DVD</td> <td>DVD-Video</td> <td>DVD-RW</td> <td>DVD-R</td> </tr> <tr> <td>CD</td> <td>CD-RW (CD-DA)</td> <td>CD-R (CD-DA)</td> <td></td> </tr> </table>	HD DVD	DVD-Video	DVD-RW	DVD-R	CD	CD-RW (CD-DA)	CD-R (CD-DA)		To select the output sound format when connecting the HDMI OUTPUT jack.	55
	HD DVD	DVD-Video	DVD-RW	DVD-R								
CD	CD-RW (CD-DA)	CD-R (CD-DA)										
Dynamic Range Control	<table border="1"> <tr> <td>HD DVD</td> <td>DVD-Video</td> <td>DVD-RW</td> <td>DVD-R</td> </tr> </table>	HD DVD	DVD-Video	DVD-RW	DVD-R	To turn on or off a function that makes faint sounds easier to hear even if you lower the volume during late-hour playback.	55					
HD DVD	DVD-Video	DVD-RW	DVD-R									
Dialog Enhancement	<table border="1"> <tr> <td>HD DVD</td> <td>DVD-Video</td> <td>DVD-RW</td> <td>DVD-R</td> </tr> </table>	HD DVD	DVD-Video	DVD-RW	DVD-R	To turn on or off a function that increases dialog volume of a disc playback.	56					
HD DVD	DVD-Video	DVD-RW	DVD-R									
Speaker Setting	<table border="1"> <tr> <td>HD DVD</td> <td>DVD-Video</td> <td>DVD-RW</td> <td>DVD-R</td> </tr> <tr> <td>CD</td> <td>CD-RW (CD-DA)</td> <td>CD-R (CD-DA)</td> <td></td> </tr> </table>	HD DVD	DVD-Video	DVD-RW	DVD-R	CD	CD-RW (CD-DA)	CD-R (CD-DA)		To select various parameters for the analog 5.1ch output.	56	
HD DVD	DVD-Video	DVD-RW	DVD-R									
CD	CD-RW (CD-DA)	CD-R (CD-DA)										
Language	Disc Menu Language	<table border="1"> <tr> <td>HD DVD</td> <td>DVD-Video</td> <td></td> <td></td> </tr> </table>	HD DVD	DVD-Video			To select a preferred language for disc menus.	57				
	HD DVD	DVD-Video										
	Subtitle Language	<table border="1"> <tr> <td>HD DVD</td> <td>DVD-Video</td> <td></td> <td></td> </tr> </table>	HD DVD	DVD-Video			To select a preferred language for subtitles.	57				
	HD DVD	DVD-Video										
Audio Language	<table border="1"> <tr> <td>HD DVD</td> <td>DVD-Video</td> <td></td> <td></td> </tr> </table>	HD DVD	DVD-Video			To select a preferred language for the sound track.	57					
HD DVD	DVD-Video											
On Screen Language	<table border="1"> <tr> <td>HD DVD</td> <td>DVD-Video</td> <td>DVD-RW</td> <td>DVD-R</td> </tr> <tr> <td>CD</td> <td>CD-RW (CD-DA)</td> <td>CD-R (CD-DA)</td> <td></td> </tr> </table>	HD DVD	DVD-Video	DVD-RW	DVD-R	CD	CD-RW (CD-DA)	CD-R (CD-DA)		To select a preferred language for on-screen displays.	58	
HD DVD	DVD-Video	DVD-RW	DVD-R									
CD	CD-RW (CD-DA)	CD-R (CD-DA)										
Ethernet		<table border="1"> <tr> <td>HD DVD</td> <td></td> <td></td> <td></td> </tr> </table>	HD DVD				To set up internet connection feature.	47				
HD DVD												
General	Parental Lock	<table border="1"> <tr> <td>HD DVD</td> <td>DVD-Video</td> <td></td> <td></td> </tr> </table>	HD DVD	DVD-Video			To turn the parental lock function on or off.	59				
	HD DVD	DVD-Video										
	Clock Set	<table border="1"> <tr> <td>HD DVD</td> <td>DVD-Video</td> <td>DVD-RW</td> <td>DVD-R</td> </tr> <tr> <td>CD</td> <td>CD-RW (CD-DA)</td> <td>CD-R (CD-DA)</td> <td></td> </tr> </table>	HD DVD	DVD-Video	DVD-RW	DVD-R	CD	CD-RW (CD-DA)	CD-R (CD-DA)		To set the clock of the player.	60
	HD DVD	DVD-Video	DVD-RW	DVD-R								
	CD	CD-RW (CD-DA)	CD-R (CD-DA)									
	OSD On/Off	<table border="1"> <tr> <td>HD DVD</td> <td>DVD-Video</td> <td>DVD-RW</td> <td>DVD-R</td> </tr> <tr> <td>CD</td> <td>CD-RW (CD-DA)</td> <td>CD-R (CD-DA)</td> <td></td> </tr> </table>	HD DVD	DVD-Video	DVD-RW	DVD-R	CD	CD-RW (CD-DA)	CD-R (CD-DA)		To activate or deactivate the operational status display on the TV screen.	60
HD DVD	DVD-Video	DVD-RW	DVD-R									
CD	CD-RW (CD-DA)	CD-R (CD-DA)										
Remote Controller Sound	<table border="1"> <tr> <td>HD DVD</td> <td>DVD-Video</td> <td>DVD-RW</td> <td>DVD-R</td> </tr> <tr> <td>CD</td> <td>CD-RW (CD-DA)</td> <td>CD-R (CD-DA)</td> <td></td> </tr> </table>	HD DVD	DVD-Video	DVD-RW	DVD-R	CD	CD-RW (CD-DA)	CD-R (CD-DA)		To turn on or off the confirmation beeper announcing when each remote command is received.	60	
HD DVD	DVD-Video	DVD-RW	DVD-R									
CD	CD-RW (CD-DA)	CD-R (CD-DA)										
Maintenance	<table border="1"> <tr> <td>HD DVD</td> <td>DVD-Video</td> <td>DVD-RW</td> <td>DVD-R</td> </tr> <tr> <td>CD</td> <td>CD-RW (CD-DA)</td> <td>CD-R (CD-DA)</td> <td></td> </tr> </table>	HD DVD	DVD-Video	DVD-RW	DVD-R	CD	CD-RW (CD-DA)	CD-R (CD-DA)		To reset player options to factory defaults or check for firmware updates.	61	
HD DVD	DVD-Video	DVD-RW	DVD-R									
CD	CD-RW (CD-DA)	CD-R (CD-DA)										
Twin Format Disc	<table border="1"> <tr> <td>HD DVD</td> <td></td> <td></td> <td></td> </tr> </table>	HD DVD				To select the layer to play of an HD DVD Twin Format Disc. (Not available while a disc is loaded.)	61					
HD DVD												

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. Both of the picture's sides are cut off.

4:3 Letter 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.

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 25 frames in PAL (30 frames in NTSC) 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

- The player may not be able to detect the source (film or video) of some material. If you notice undesirable picture performance, try selecting "Film" or "Video".

Resolution Setting

See  page 23.

PAL/Auto

PAL

Select this when you view a DVD disc of PAL colour system on a PAL TV connected to this player.

Auto

The player automatically identifies PAL or NTSC video system of a disc. Connect a multisystem TV (PAL/NTSC compatible) to view a picture. A playback picture may be distorted when detected a signal change between PAL and NTSC on the disc.

Note

- Actual effects of these settings may vary depending on performance of connected device.

Audio

Digital Out SPDIF

Selects the output sound format by the DIGITAL AUDIO OUTPUT BITSTREAM/PCM jack on this player.

For details about output sound selection, see ➡ page 63.

Bitstream

Select this when an AV receiver or processor equipped with built-in Dolby Digital, DTS or MPEG decoder is connected to this player.

When you play a disc recorded in Dolby Digital Plus or Dolby TrueHD format, Dolby Digital sound is output. When you play a disc recorded in DTS-HD format, the sound is converted to a DTS bitstream.

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.

Digital Out 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 63.

Auto

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

Digital audio signal (bitstream audio) is output. If a connected HDMI device does not support bitstream audio input, sound is converted into linear PCM to output.

PCM

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

The sound is output in multi channel in linear PCM format.

Downmixed PCM

Select this when a 2 channel digital stereo AV receiver or processor is connected to this player.

When you play a disc recorded in multi channel, sound is converted into PCM (2 channel) format to output.

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

While playing an HD DVD video disc recorded in Dolby TrueHD format, this function will be automatically activated or disabled according to certain command included in the content.

For other discs, this function is activated.

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.

Customizing the function settings (Continued)

Audio

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 HD DVD or DVD video discs recorded in Dolby Digital or Dolby Digital Plus.
- The effect level of this function vary depending on the disc.

Speaker Setting

To select various parameters for the analog 5.1 channel output.

5.1ch

When a 5.1 channel surround system is connected to this player.

Go to the next step (see below) for detailed selections.

2ch

When a 2 channel stereo system is connected to this player.

When you selected "5.1ch":

Set the speaker sizes, distance to each speaker and the crossover frequency.

- 1 Select a speaker by pressing **▲/▼/◀/▶** buttons, and press OK button.
- 2 Select the size by pressing **▲/▼** buttons, and press OK button.

Front Left / Front Right

Small: Select if the speaker cannot output low frequency.

Large: Select if the speaker can output low frequency.

Center / L Surround / R Surround

Small: Select if the speaker cannot output low frequency.

Large: Select if the speaker can output low frequency.

None: When the speaker is not connected.

Subwoofer

Use: When a subwoofer is connected.

Don't Use: When a subwoofer is not connected.

Crossover Setting

Low frequency under which you set here will be of a subwoofer. Select one from 80 Hz/100 Hz/120 Hz.

ft

Select a distance to each speaker from the listening position.

If you select "Clear" and press OK button, your selection is canceled and the previous menu returns.

If you select "End" and press OK button, your selection is saved and the setting finishes.

- 3 Select "Next" by pressing **▲/▼/◀/▶** buttons, and press OK button.
The next screen appears.
- 4 Select "Automatic Test Tone" by pressing **▲/▼/◀/▶** buttons, and press OK button.
A test signal is sent to each speaker. Adjust each of the volumes by pressing **▲/▼**, selecting speakers by **◀/▶**, so that each speaker can sound at the same volume.
For further adjustment, check the channel balance on the amplifier.
- 5 When complete, select "OK" and press OK button.

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.

Other

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 62).
- 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, as the disc may contain alternate language.

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.

Other

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 62).
- 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, as the disc may contain alternate language.
- 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.

Other

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 62).
- 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, as the disc may contain alternate language.

Customizing the function settings (Continued)**Language****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.

Ethernet

See the “Internet connection” chapter (➡ page 44).

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.

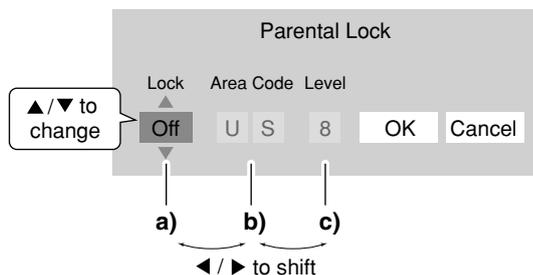
Important

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	

3 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.

Customizing the function settings (Continued)

General**Clock Set**

To set the clock of the player.

- 1 Select your time zone by ◀/▶ buttons, then press OK button.
- 2 Press ▼ button to shift the cursor to the next input area.
- 3 Enter the year using the number buttons, then press OK button.
- 4 Set "Month", "Date" and "Time" in the same manner as 3.
- 5 Select "AM" or "PM" by ▲/▼ buttons.
- 6 Press ◀ button then ▼ button to select "OK", then press OK button.

The clock starts.

Note

- If a power failure occurs or the power cord is disconnected, the clock data will be erased. Reset the clock.

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.

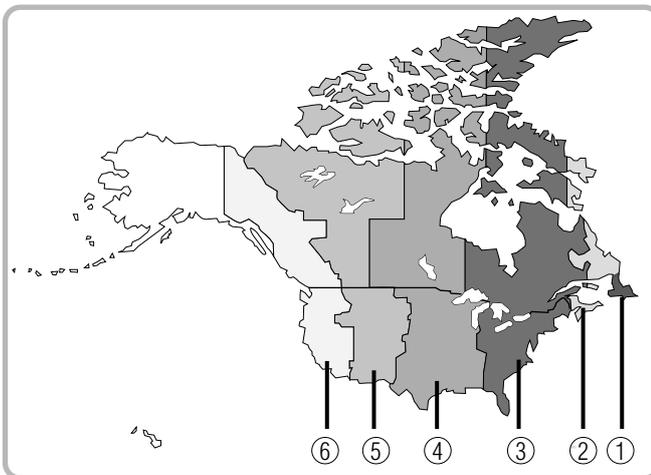
On

Turns on the beep sound.

Off

Turns off the beep sound.

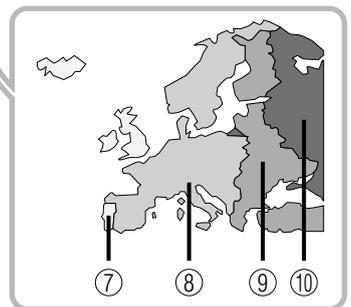
Time zone map



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



- | |
|-------------------------|
| ⑦ Western European Time |
| ⑧ Central European Time |
| ⑨ Eastern European Time |
| ⑩ Moscow Standard Time |



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)

If you have a broadband internet service you may obtain firmware updates over the internet using the LAN port on the back of your player. (➤ pages 46 to 48 for information on configuring and connecting your LAN port.) Then follow these steps:

- Make sure no disc is loaded in the player.
- Press SETUP and select Maintenance. Follow the instructions on the screen.
- If no update is available, a message will note this and the process will terminate.
- If an update is available, the player will download it showing the status of the process on its display.
- Do not attempt to roll back to a prior firmware version. This may damage your player.

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.

Persistent Storage

To open the menu to control player's memory allocated for content. (Not available while a disc is loaded.)

The menu selections will vary depending on the content. Operate following the instructions displayed on your screen.

Twin Format Disc

To select a layer to play, HD DVD or DVD of an HD DVD Twin Format Disc. (Not available if a disc is loaded.)

HD DVD

Only the HD DVD layer is played.

DVD

Only the DVD layer is played.

Note

- For combination discs, select the desired version by disc side (see label for information).

Language code list

Abbreviation	Language	Abbreviation	Language	Abbreviation	Language
---	No alternate language	GN	Guarani	PT	Portuguese
CHI (ZH)	Chinese	GU	Gujarati	QU	Quechua
DUT (NL)	Dutch	HA	Hausa	RM	Rhaeto-Romance
ENG (EN)	English	HI	Hindi	RN	Kirundi
FRE (FR)	French	HR	Croatian	RO	Rumanian
GER (DE)	German	HU	Hungarian	RU	Russian
ITA (IT)	Italian	HY	Armenian	RW	Kinyarwanda
JPN (JA)	Japanese	IA	Interlingua	SA	Sanskrit
KOR (KO)	Korean	IE	Interlingue	SD	Sindhi
MAY (MS)	Malay	IK	Inupiak	SG	Sango
SPA (ES)	Spanish	IN	Indonesian	SH	Serbo-Croatian
AA	Afar	IS	Icelandic	SI	Singhalese
AB	Abkhazian	IW	Hebrew	SK	Slovak
AF	Afrikaans	JI	Yiddish	SL	Slovenian
AM	Amharic	JW	Javanese	SM	Samoan
AR	Arabic	KA	Georgian	SN	Shona
AS	Assamese	KK	Kazakh	SO	Somali
AY	Aymara	KL	Greenlandic	SQ	Albanian
AZ	Azerbaijani	KM	Cambodian	SR	Serbian
BA	Bashkir	KN	Kannada	SS	Siswati
BE	Belorussian	KS	Kashmiri	ST	Sesotho
BG	Bulgarian	KU	Kurdish	SU	Sundanese
BH	Bihari	KY	Kirghiz	SV	Swedish
BI	Bislama	LA	Latin	SW	Swahili
BN	Bengali, Bangla	LN	Lingala	TA	Tamil
BO	Tibetan	LO	Laotian	TE	Telugu
BR	Breton	LT	Lithuanian	TG	Tajik
CA	Catalan	LV	Latvian, Lettish	TH	Thai
CO	Corsican	MG	Malagasy	TI	Tigrinya
CS	Czech	MI	Maori	TK	Turkmen
CY	Welsh	MK	Macedonian	TL	Tagalog
DA	Danish	ML	Malayalam	TN	Setswana
DZ	Bhutani	MN	Mongolian	TO	Tongan
EL	Greek	MO	Moldavian	TR	Turkish
EO	Esperanto	MR	Marathi	TS	Tsonga
ET	Estonian	MT	Maltese	TT	Tatar
EU	Basque	MY	Burmese	TW	Twi
FA	Persian	NA	Nauru	UK	Ukrainian
FI	Finnish	NE	Nepali	UR	Urdu
FJ	Fiji	NO	Norwegian	UZ	Uzbek
FO	Faroese	OC	Occitan	VI	Vietnamese
FY	Frisian	OM	(Afan) Oromo	VO	Volapük
GA	Irish	OR	Oriya	WO	Wolof
GD	Scottish Gaelic	PA	Panjabi	XH	Xhosa
GL	Galician	PL	Polish	YO	Yoruba
		PS	Pashto, Pushto	ZU	Zulu

Output sound conversion table

Disc	Audio Format	5.1CH ANALOG AUDIO OUTPUT	2CH ANALOG AUDIO OUTPUT	"Digital Out SPDIF"	
				Bitstream	PCM
HD DVD Video Advanced con.	DD Plus/Dolby TrueHD	up to 5.1ch PCM	2ch PCM	Dolby Bitstream	2ch PCM
	dts-HD/L-PCM	up to 5.1ch PCM	2ch PCM	DTS Bitstream	2ch PCM
HD DVD Video Standard content	DD plus	up to 5.1ch PCM	2ch PCM	Bitstream	2ch PCM
	True HD 48kHz 96kHz 192kHz	up to 5.1ch PCM	2ch PCM	Dolby Bitstream	2ch PCM
		up to 5.1ch PCM	2ch PCM	Dolby Bitstream	2ch PCM ¹
		2ch PCM	2ch PCM	Dolby Bitstream	2ch PCM ¹
	dts-HD	up to 5.1ch PCM	2ch PCM	Bitstream	2ch PCM
	L-PCM 48kHz 96kHz 192kHz	up to 5.1ch PCM	2ch PCM	DTS Bitstream	2ch PCM
up to 5.1ch PCM		2ch PCM	DTS Bitstream	2ch PCM ¹	
2ch PCM		2ch PCM	DTS Bitstream	2ch PCM ¹	
MPEG	2ch PCM	2ch PCM	Bitstream	2ch PCM	
DVD-Video	DD	up to 5.1ch PCM	2ch PCM	Bitstream	2ch PCM
	L-PCM 48kHz 96kHz	2ch PCM	2ch PCM	2ch PCM	2ch PCM
		2ch PCM	2ch PCM	2ch PCM ¹	2ch PCM ¹
	dts	up to 5.1ch PCM	2ch PCM	Bitstream	2ch PCM
CD	L-PCM 44.1kHz	2ch PCM	2ch PCM	2ch PCM	2ch PCM
		2ch PCM	2ch PCM	2ch PCM	2ch PCM
DVD-VR	DD	2ch PCM	2ch PCM	Bitstream	2ch PCM
	L-PCM	2ch PCM	2ch PCM	2ch PCM	2ch PCM
	MPEG	2ch PCM	2ch PCM	Bitstream	2ch PCM

Disc	Audio Format	"Digital Out HDMI"		
		Auto	PCM ²	Downmixed PCM
HD DVD Video Advanced con.	DD Plus/Dolby TrueHD/ dts-HD/L-PCM	Depend on HDMI receiver	up to 5.1ch PCM ³	2ch PCM ¹
	DD plus	Depend on HDMI receiver	up to 5.1ch PCM	2ch PCM
HD DVD Video Standard content	True HD 48kHz 96kHz 192kHz	Depend on HDMI receiver	up to 5.1ch PCM	2ch PCM
		Depend on HDMI receiver	up to 5.1ch PCM ³	2ch PCM ¹
		Depend on HDMI receiver	2ch PCM ³	2ch PCM ¹
	dts-HD	Depend on HDMI receiver	up to 5.1ch PCM	2ch PCM
	L-PCM 48kHz 96kHz 192kHz	Depend on HDMI receiver	up to 5.1ch PCM	2ch PCM
		Depend on HDMI receiver	up to 5.1ch PCM ³	2ch PCM ¹
Depend on HDMI receiver		2ch PCM ³	2ch PCM ¹	
MPEG	Depend on HDMI receiver	2ch PCM	2ch PCM	
DVD-Video	DD	Depend on HDMI receiver	up to 5.1ch PCM	2ch PCM
	L-PCM 48kHz 96kHz	2ch PCM	2ch PCM	2ch PCM
		2ch PCM	2ch PCM ³	2ch PCM ¹
	dts	Depend on HDMI receiver	up to 5.1ch PCM	2ch PCM
CD	L-PCM 44.1kHz	2ch PCM	2ch PCM	2ch PCM
		2ch PCM	2ch PCM	2ch PCM
DVD-VR	dts	Depend on HDMI receiver	up to 5.1ch PCM	2ch PCM
	DD	Depend on HDMI receiver	2ch PCM	2ch PCM
	L-PCM	2ch PCM	2ch PCM	2ch PCM
DVD-VR	L-PCM	2ch PCM	2ch PCM	2ch PCM
	MPEG	Depend on HDMI receiver	2ch PCM	2ch PCM

- 1: Downsampled PCM.
- 2: Up to 5.1 channel PCM audio output is possible only when the connected device supports multi channel output.
- 3: This output format is possible when the resolution setting is "720p", "1080i" or "1080p". When the resolution setting is set to "480p/576p", this output format depends on HDMI receiver.

Notes

- The main title content of most movie HD DVD discs is "advanced content".
- The BITSTREAM/PCM jack may not output sound you select. In this instance, set "Digital Out SPDIF" to "PCM".

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(For example, a function in a library to compute square roots has a purpose that is entirely welldefined independent of the application. Therefore, Subsection 2d requires that any applicationsupplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a

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- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

License information on the software used in the TOSHIBA HD DVD player (Continued)

Exhibit C

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Original SSLeay License

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The implementation was written so as to conform with Netscapes SSL.

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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.	<p>→ Is the cable for connecting the player and TV disconnected or not connected properly? Check the connections (➡ page 21 – 22)</p> <p>→ Switch the input of the connected TV to the signal from the player.</p> <p>→ Check the settings (MODE switch and “Resolution Setting”). (➡ page 24)</p> <p>→ Are both the HDMI OUTPUT jack and the COMPONENT OUTPUT jacks connected simultaneously? Select either connection and make the appropriate setting. (➡ page 21 – 23)</p>
■ No sound.	<p>→ Is the audio cable disconnected? (➡ page 22)</p> <p>→ Is the volume of the device turned down to the minimum level? Check the volume.</p> <p>→ Switch the audio input of the device connected by the audio cable to the input from the player.</p> <p>→ Set “Digital Out SPDIF” or “Digital Out HDMI” (➡ page 55) properly in accordance with the connected device and connection procedure.</p> <p>→ The volume level is set to the minimum. Adjust the volume. (➡ page 56)</p> <p>→ Change the output resolution (➡ page 23) so that sound can be heard.</p> <p>→ If using the optical digital output for a Dolby Digital Plus, Dolby TrueHD, DTS-HD or DTS soundtrack, be sure your AV receiver or processor is set to use the input connected to your player and is set to output the respective sounds.</p>
■ Output level of multi channel sound is reduced.	→ Set “Speaker Setting” (➡ page 56) to “2ch”.
■ Multi channel sound is not output.	→ Set “Speaker Setting” (➡ page 56) to “5.1ch”.
■ The disc does not play.	<p>→ Make sure the disc type can be played with the player. (➡ page 28)</p> <p>→ Is the disc dirty or scratched? Check or clean the disc. (➡ page 29)</p> <p>→ If the disc is a DVD-RW or DVD-R disc, finalize the disc before attempting to play it with the player.</p> <p>→ If the disc includes parent lock support, playback is restricted while the parent lock of the player is set. Cancel Parental Lock (➡ page 59) or change the restriction level.</p>
■ 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.	<p>→ Are the batteries of the remote control dead? Replace the batteries. (➡ page 16)</p> <p>→ Make sure the remote control is within range and pointed in the correct direction.</p>
■ 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

50.0W

■ Power supply

220 – 240V AC 50/60Hz

■ Mass

6.2kg

■ External dimension

Width 438 x Height 74.4 x Depth 344mm

■ Signal system

Standard PAL/NTSC colour 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 system

■ 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 1 system

2.0V (rms), 2.2kΩ or below, pin jack

Pin jack x 6

■ Digital audio output (BITSTREAM/PCM jack)

Optical connector x 1 system

Coaxial pin jack x 1 system, 0.5Vp-p (75Ω)

■ LAN port

100BASE-TX/10BASE-T x 1

■ EXTENSION port

EXTENSION port x 2 systems

■ RS-232C connector

DSUB 9 pin

■ HDMI output

19 pin

■ Remote control

Wireless remote control (SE-R0251)

■ Operating conditions

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

Position: Horizontal

■ Clock accuracy

Quartz (monthly deviation: approximately ±30 seconds)

- 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.

MEMO

Introduction

Connections

Playback
(Basic)

Playback
(Advanced)

Internet
connection

Others

MEMO

MEMO

Introduction

Connections

Playback
(Basic)

Playback
(Advanced)

Internet
connection

Others

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 service for your country or <http://www.highdefinitiondvd.eu/>.

Customer Helpline

(This is only for U.K. customers.)

Should you experience any problems during the installation of this product or within the first 12 months of purchase* please call the

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To assist the Helpline when contacting them please have available.

- The Owners manual supplied with the Product,
- The Model Number,
- The Serial Number (generally on the back of the unit),
- A pen.

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