HD DVD Player

**DHS-8.8** 

Instruction Manual

Integra

#### **WARNING:**

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

#### **CAUTION:**

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



#### WARNING RISK OF ELECTRIC SHOCK DO NOT OPEN







The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

# **Important Safety Instructions**

- 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.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- 12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



- 13. Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

- 15. Damage Requiring Service
  - Unplug the apparatus from the wall outlet and refer servicing to qualified service personnel under the following conditions:
  - A. When the power-supply cord or plug is damaged,
  - B. If liquid has been spilled, or objects have fallen into the apparatus,
  - C. If the apparatus has been exposed to rain or water,
  - D. If the apparatus does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the apparatus to its normal operation,
  - E. If the apparatus has been dropped or damaged in any way, and
  - F. When the apparatus exhibits a distinct change in performance this indicates a need for service.
- 16. Object and Liquid Entry

Never push objects of any kind into the apparatus through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock.

The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases shall be placed on the apparatus.

Don't put candles or other burning objects on top of this unit.

- 17. Batteries
  - Always consider the environmental issues and follow local regulations when disposing of batteries.
- 18. If you install the apparatus in a built-in installation, such as a bookcase or rack, ensure that there is adequate ventilation.
  - Leave 20 cm (8") of free space at the top and sides and 10 cm (4") at the rear. The rear edge of the shelf or board above the apparatus shall be set 10 cm (4") away from the rear panel or wall, creating a flue-like gap for warm air to escape.

# **Precautions**

- 1. Recording Copyright—Unless it's for personal use only, recording copyrighted material is illegal without the permission of the copyright holder.
- 2. AC Fuse—The AC fuse inside the unit is not userserviceable. If you cannot turn on the unit, contact the dealer from whom you purchased this unit.
- 3. Care—Occasionally you should dust the unit all over with a soft cloth. For stubborn stains, use a soft cloth dampened with a weak solution of mild detergent and water. Dry the unit immediately afterwards with a clean cloth. Don't use abrasive cloths, thinners, alcohol, or other chemical solvents, because they may damage the finish or remove the panel lettering.

#### 4. Power

#### **WARNING**

BEFORE PLUGGING IN THE UNIT FOR THE FIRST TIME, READ THE FOLLOWING SECTION CAREFULLY.

AC outlet voltages vary from country to country. Make sure that the voltage in your area meets the voltage requirements printed on the unit's rear panel (e.g., AC 230 V, 50 Hz or AC 120 V, 60 Hz).

The power cord plug is used to disconnect this unit from the AC power source. Make sure that the plug is readily operable (easily accessible) at all times. 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.

Pressing the [On/Standby] button to select Standby mode does not fully shutdown the unit. If you do not intend to use the unit for an extended period, remove the power cord from the AC outlet.

5. Never Touch this Unit with Wet Hands—Never handle this unit or its power cord while your hands are wet or damp. If water or any other liquid gets inside this unit, have it checked by the dealer from whom you purchased this unit.

#### 6. Handling Notes

- If you need to transport this unit, use the original packaging to pack it how it was when you originally bought it.
- Do not use volatile liquids, such as insect spray, near the player. Do not leave rubber or plastic items on this unit for a long time, because they may leave marks on the case.
- This unit's top and rear panels may get warm after prolonged use. This is normal.
- If you do not use this unit for a long time, it may not work properly the next time you turn it on, so be sure to use it occasionally.
- When you've finished using this unit, remove all discs and turn off the power.

#### 7. Installing this Unit

- Before placing the player, make sure that the surface can stand the weight of the player.
- Install this unit in a well-ventilated location.
- Ensure that there's adequate ventilation all around this unit, especially if it's installed in an audio rack. If the ventilation is inadequate, the unit may overheat, leading to malfunction.
- Do not expose this unit to direct sunlight or heat sources, because its internal temperature may rise, shortening the life of the optical pickup.
- Avoid damp and dusty places, and places subject to vibrations from loudspeakers. Never put the unit on top of, or directly above a loudspeaker.
- Install this unit horizontally. Never use it on its side or on a sloping surface, because it may cause a malfunction.
- If you install this unit near a TV, radio, or VCR, the picture and sound quality may be affected. If this occurs, move this unit away from the TV, radio, or VCR.
- Never place the player in a high location to avoid damage to the product or person by an accidental fall of the player.
- 8. To Obtain a Clear Picture—This unit is a high-tech, precision device. If the lens on the optical pickup, or the disc drive mechanism becomes dirty or worn, the picture quality may be affected. To maintain the best picture quality, we recommend regular inspection and maintenance (cleaning or worn part replacement) every 1,000 hours of use depending on the operating environment. Contact the dealer from whom you purchased this unit for details.

#### 9. Moisture Condensation

**Moisture condensation may damage this unit.** Read the following carefully:

Moisture may condense on the lens of the optical pickup, one of the most important parts inside this unit.

- Moisture condensation can occur in the following situations:
- The unit is moved from a cold place to a warm place.
- A heater is turned on, or cold air from an air conditioner is hitting the unit.
- In the summer, when this unit is moved from an air conditioned room to a hot and humid place.
- The unit is used in a humid place.
- Do not use this unit when there's the possibility of moisture condensation occurring. Doing so may damage your discs and certain parts inside this unit.
   If condensation does occur, remove all discs and

If condensation does occur, remove all discs and leave this unit turned on for two to three hours. By this time, the unit will have warmed up and any condensation will have evaporated.

# **Precautions (Continued)**

- 10. Region Numbers—The DVD standard uses region numbers to control how discs can be played around the world, the world being divided into six regions. This unit will only play DVD discs that match its region number, which can be found on its rear panel (e.g., ).
- 11. About this Manual—This manual explains how to use all of this unit's functions. Although the DVD standard offers many special features, not all discs use them all, so depending on the disc being played, this unit may not respond to certain functions. See the disc's sleeve notes for supported features.

This unit contains a semiconductor laser system and is classified as a "CLASS 1 LASER PRODUCT". So, to use this model properly, read this Instruction Manual carefully. In case of any trouble, please contact the store where you purchased the unit.

To prevent being exposed to the laser beam, do not try to open the enclosure.

#### **CAUTION:**

CLASS 1M VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS.

THIS PRODUCT UTILIZES A LASER. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

The label on the right is applied on the rear panel.

CLASS 1 LASER PRODUCT

- 1. This unit is a CLASS 1 LASER PRODUCT and employs a laser inside the cabinet.
- To prevent the laser from being exposed, do not remove the cover. Refer servicing to qualified personnel.

#### **WARNING**

To prevent a fire hazard, do not place any naked flame sources (such as a lighted candle) on the equipment.

When disposing of used batteries, please comply with governmental regulations or environmental public instruction's rules that apply in your country/area.

#### For U.S. models

#### **FCC Information for User**

#### **CAUTION:**

The user changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

#### NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

#### For Canadian Models

NOTE: THIS CLASS B DIGITAL APPARATUS COMPLIES WITH CANADIAN ICES-003. For models having a power cord with a polarized plug: CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

#### Modèle pour les Canadien

REMARQUE: CET APPAREIL NUMÉRIQUE DE LA CLASSE B EST CONFORME À LA NORME NMB-003 DU CANADA.

Sur les modeles dont la fiche est polarisée: **ATTENTION:** POUR ÉVITER LES CHOCS ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

DHS-8 8 En indb

# Table of contents

Thank you for purchasing an Integra HD DVD Player.

Please read this manual thoroughly before making connections and plugging in the unit.

Following the instructions in this manual will enable you to obtain optimum performance and listening enjoyment from your new HD DVD Player.
Please retain this manual for future reference.

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# **Features**

## Disc compatibility

Discs which can be played on this player are as follows.

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

Disc	Specification			
Prerecorded discs				
<ul> <li>HD DVD video disc</li> <li>HD DVD video discs are high-density, high-capacity discs.</li> <li>The HD DVD disc standard has been approved by the DVD forum.</li> <li>HD DVD (single layer): 15 GB</li> <li>HD DVD (dual layer): Maximum capacity of 30 GB</li> <li>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).</li> <li>*1GB means 1,000,000,000 bytes.</li> <li>HD DVD Twin Format Discs have both HD DVD and DVD layers on one side. HD DVD Combination Format Discs have HD DVD material on one side and DVD material on the other side.</li> </ul>			e DVD forum.  of about 8 hours in 1125 line high definition picture (depending on DVD layers on one side. HD DVD	
DVD video disc	12cm (4 <sup>3</sup> / <sub>4</sub> in.) / 8cm (3 <sup>1</sup> / <sub>4</sub> in.) See page 7 for region information.			
Audio CD  COMPACT  DIGITAL AUDIO  (CD )	12cm (4 <sup>3</sup> / <sub>4</sub> in.) / 8cm (3 <sup>1</sup> / <sub>4</sub> in.)			
Recordable discs				
DVD-RW  ( DVD-RW )	DVD VR mode recording (CPRM compatible discs not supported.) DVD Video mode recording Finalized discs only.	DVD-R  R4.7  ( DVD-R )	DVD VR mode recording (CPRM compatible discs not supported.) DVD Video mode recording Finalized discs only.	
CD-RW	CD-DA (audio CD) format Finalized discs only.	CD-R	CD-DA (audio CD) format Finalized discs only.	

#### **Notes**

- This player can play pictures of the NTSC color system only.
- You cannot play non-standardized discs even if they may be labeled as above.
- Discs other than the above cannot be played. Even some of the above discs may not be able to be played depending on their state.
- Blu-ray Discs cannot be played on this player.

#### Notes on handling discs

- Do not touch the playback side of the disc.
- Do not stick paper or tape to 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, benzine, commercially available cleaners or antistatic spray for vinyl LPs. It may damage the
  disc.
- Refer to the instructions of the disc as well.
- 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.

#### Important notes about HD DVD

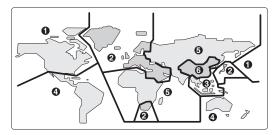
HD DVD with high-definition content required for HD viewing. Viewing high-definition content and up-converting DVD content may require an HDCP capable DVI or HDMI input on your 50/60 Hz display device. Up-conversion of DVD content will result in near HD picture quality. Firmware update may be required for some interactive features depending on content, which may also require an always-on broadband internet connection. Some features may require additional bandwidth. 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. 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. This may, in rare cases, include disc freezing while accessing certain disc features, or functions, or certain parts of the disc not playing back or operating as fully intended. If you experience such issues, please contact the dealer from whom you purchased this unit. Some features subject to delayed availability. 1080p capable display required for 1080p output resolution. Deep Color feature as specified in HDMI 1.3a requires compatible Deep Color capable HD display and/or device. For 24p output, content that was created in 1080p / 24 frames/sec is required. Viewing 24p output requires an HD display capable of accepting a 1080p/24Hz signal. While every effort has been made at the time of publication to ensure the accuracy of the information provided herein, product specifications, configurations, system/component/options availability are all subject to change without notice.

#### Note

 The firmware in this player can be updated. See ⇒ page 39 for details.

#### **DVD-Video regions**

All DVD-Video discs carry a region mark on the case somewhere that indicates which region(s) of the world the disc is compatible with. Your HD DVD player also has a region mark, which you can find on the rear panel. Discs from incompatible regions will not play in this player. In this case the attention sentence "Incompatible disc region number Can't play disc" is displayed on screen. Discs marked "ALL" will play in any player. The diagram below shows the various DVD regions of the world.



#### 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.

"o" may appear on the TV screen during operation. "o" 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, Onkyo 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 the dealer from whom you purchased this unit.

#### 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.

# **Features (Continued)**

#### Notes on web-enabled network content

Certain HD DVD discs may contain or have the capability of downloading studio-provided, web-enabled network content. To minimize any potential compatibility and/or connectivity issues, before viewing such content, it is recommended that you perform the firmware update process to ensure that your HD DVD player is using the latest firmware version. Do not unplug or turn off the HD DVD player when downloading studio-provided, webenabled network content. Doing so may cause data stored in the player's persistent storage to be lost.

## **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

## **Certain system requirements**

For high definition video playback:

- 50/60 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.

## Customer support

Please contact the dealer from whom you purchased this

Before accessing, try updating this player's firmware. For details on how to update, see "Update (Firmware update)" (⇒ page 39).

This HD DVD player is manufactured under the HD DVD Format adopted by the DVD Forum. The DVD Forum approved AACS (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 AACS 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 AACS 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 AACS and this product, please contact the dealer from whom you purchased this unit.

## Notes on copyright

- The unauthorized recording, use, display, distribution, or revision of television programs, videotapes, HD DVDs, DVDs, CDs and other materials, is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and/or criminal liability.
- This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.



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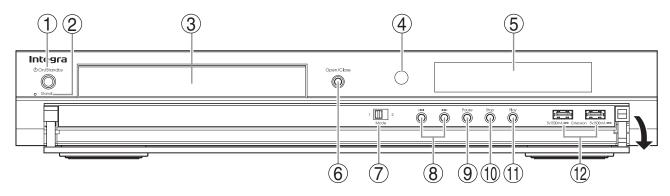
VRS is a trademark of Anchor Bay Technologies, Inc.



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# Index to parts and controls

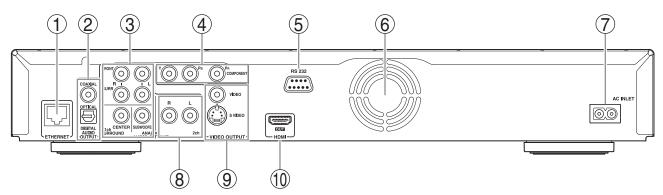
# Front panel



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

No.	Control	Function	Page
1	On/Standby button	Turns the power on or restores the unit to the standby mode.	18
2	Standby indicator	Blue: power on / Red: standby mode	18
3	Disc tray	Loads a disc into the disc drive.	27
4	Remote sensor	Receives infrared signals from the remote control.	11
(5)	Front panel display	See the next page.	10
6	Open/Close button	Opens and closes the disc tray.	27
7	Mode switch	Selects the video output jack.	13
8	I◄◄ / ▶▶I (Skip) buttons	Locates a chapter or track. ▶► : forward direction / ► : reverse direction	28
9	Pause button	Stops playback momentarily.	28
10	Stop button	Stops playback.	28
11)	Play button	Starts playback.	27
12	Extension port	For future functions.	31

# Rear panel

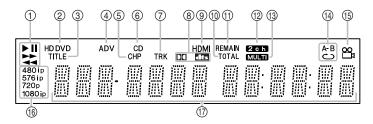


No.	Control	Function	Page
1	ETHERNET port	Use this to connect to a network with an always-on broadband connection.	17
2	DIGITAL AUDIO OUTPUT OPTICAL/ COAXIAL jack	Outputs digital audio signals. Connect to a digital audio input on an amplifier equipped with digital audio decoder. When connecting the optional digital cable, fit the connector into the jack firmly.	15
3	ANALOG AUDIO OUTPUT 5.1ch SURROUND jacks	Outputs analog audio signals. Connect to an amplifier equipped with 5.1 channel audio input.	16
4	COMPONENT VIDEO OUTPUT jacks	Outputs video signals to a connected TV or monitor.  Connect to a TV or monitor equipped with component video jacks.	14
5	RS-232 jack	Used for custom control devices.	_
6	Ventilation fan	Do not cover the ventilation holes.	_
7	AC INLET socket	Connect the supplied power cord.	18
8	ANALOG AUDIO OUTPUT 2ch jacks	Outputs audio signals to a connected TV or AV amplifier.	16
9	VIDEO OUTPUT (VIDEO, S VIDEO) jack	Outputs video signals to a connected TV or amplifier.	15
10	HDMI OUT jack	Outputs video/audio signals to a connected TV, monitor or AV amplifier.  Connect to a TV, monitor or AV amplifier equipped with HDMI input.	14

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# Index to parts and controls (Continued)

## **Display**



No.	Function	
	► : Playing	
1	<b>II</b> : Pausing	
	►► : Fast forward playback	
2	HD DVD: An HD DVD is loaded.	
	DVD: A DVD is loaded.	
3	Shows a title number.	
4	A disc which contains advanced content is loaded.	
(5)	Shows a chapter number.	
6	A CD is loaded.	

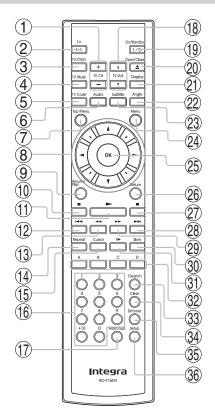
No.	Function	
7	Shows a track number.	
8	: Dolby Digital sound is played.  : DTS sound is played.	
9	HDMI connection is verified between the player and another device.	
10	Total playing time is displayed.	
11)	Remaining playing time is displayed.	
12	2ch sound is output.	
13	Multi channel sound is output.	
14)	Playing in repeat mode.	
15)	Playing a scene recorded with multi angles.	
16	Displays the video output format currently selected. (i: interlaced, p: progressive)	
17)	Displays the elapsed time, remaining time, a number of title, chapter or track, messages, etc.	

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**

10



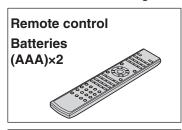
Function	Page
To change TV channels.	12
To turn the TV on or off.	12
To change inputs of the TV.	12
To mute the TV.	12
To program the remote control to control a TV.	12
To select the sound.	29
To display a top menu.	27
To select a content or position to enter.	19, 27
	To change TV channels. To turn the TV on or off. To change inputs of the TV. To mute the TV. To program the remote control to control a TV. To select the sound. To display a top menu.

No.	Function	Page
9	To resume playback while playing an HD DVD.	28
10	To pause playback.	28
11)	To start playback.	27
12	To locate a title, chapter or track in the reverse direction.	28
13	To play fast in reverse direction.	28
14)	To display a repeat mode menu.	30
15)	To set the 8 direction buttons to move the cursor during HD DVD playback.	31
16	To enter numbers.	30
17)	For future functions which may become available by software update.	_
18	To adjust TV volume.	12
19	To turn the power on or off.	18
20	To open/close the disc tray.	27
21)	To display operating status.	30
22	To select a camera angle.	29
23	To display subtitles.	29
24)	To display a menu included on many DVD video discs.	27
25	To enter a selected content.	19, 27
26	To return to the previous menu.	19
27)	To stop playback.	28
28)	To locate a title, chapter or track in the forward direction.	28
29	To play fast in forward direction.	28
30	To play in slow motion.	28
31)	To play frame by frame.	28
32	To operate as indicated by the video display during HD DVD playback.	31
33	To display a window to locate a title, chapter or track.	30
34)	To clear entered information.	30
35)	To change the brightness of the display on the player.	10
36	To display the setup menu.	33

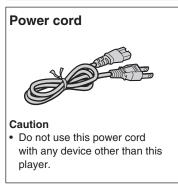
# **Accessories**

## Supplied accessories

Check that the following accessories are supplied.







\* In catalogs and on packaging, the letter at the end of the product name indicates the color. Specifications and operations are the same regardless of color.

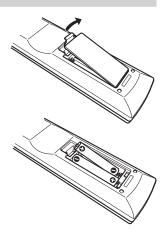
# **Remote control**

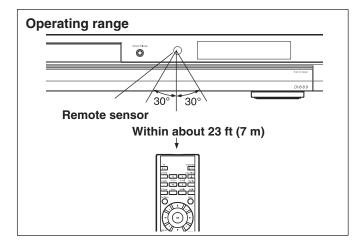
## **Loading batteries**

1 Open the cover and load batteries (AAA size).

Make sure to match the + and – on the batteries to the marks inside the battery compartment.

**2** 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.
- 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

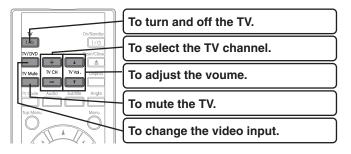
Never throw batteries into a fire.

# Remote control (Continued)

## TV control

The remote control of this player is compatible with TV controls.

Once you program the remote control (see the next paragraph), the following controls are available. Operate the remote control toward your TV.



#### ■ To program the remote control to operate your TV

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

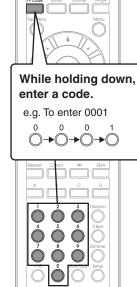
Some brands have several codes. Try one by one until the remote control can operate your TV.



The brand code is memorized.

#### Note

 When replacing the batteries of the remote control, re-enter the brand code of your TV.



Brand name	Brand code
Bell & Howell	0081 0431
Citizen	0051 0381 0471 0551 0621 0851 1561
Curtis Mathes	0051 0391 0431 0531 0621 0851 1521 1561
Emerson	0051 0111 0121 0141 0151 0161 0201 0211 0351
	0381 0431 0521 0561 0571 0621 0691 1241 1291
	1371 1561 2481 4871
Fisher	0251 0401 0431 1151 2451 2461
GE	0001 0041 0051 0091 0181 0321 0371 0391 0591
	0621 0711 0741 1041 1471 1521 2481 4691 4881
	4891
Goldstar	0051 0061 0161 0231 0451 0501 0621 0661 0771
	0961 1431 1561 2491
Hitachi	0031 0051 0161 0191 0301 0601 0621 0641 0671
	0811 0821 0951 1011 1061 1241 1361 1651 1711
	1731 1741 1751 1761 2041 2051 2131 2381 4121 4731 4901 4911 4921 4931 4941 4951 4961 5631
La dia in	
Infinity	0631
JBL	0631
JVC	0101 0161 0191 0241 0331 0511 0561 0601 0741
	0991 1321 1421 2161 2171 4341 4351 4701 4711
	4721 4741 4751 4761 4771 4781 4791 4801 4811
	4971 4981 4991 5001 5011 5021 5031 5041 5051
	5061 5071 5081 5091 5101 5111 5121 5131 5141 5151 5161 5171 5181 5191 5201
LVI	
LXI	0311 0391 0411 0431 0621 0631 0881 1041 1171 1521 2491
1	10212431

Brand name	Brand code
Maganvox	0051 0271 0291 0341 0361 0421 0551 0621
	0631 0661 0971 0981 1131 2221 5221 5231
	5241
Marantz	0051 0481 0621 0631 0641 2491
Memorex	0081 0431 0501 0621 2491 4421 5251
MGA	0051 0251 0261 0371 0501 0621 0661 0761
Mitsubishi	0051 0251 0261 0281 0371 0491 0501 0621 0661
	0761 2231 2241 5261 5271
MTC	0051 0501 0621 0851
NAD	0311 0411 0621 0881 1061
Optonica	0541 1101
Panasonic	0631 0711 0741 1271 1351 1401 1501 1701 1791 1801 2111 2151 2301 2321 4101 5281 5291 5301
	5311 5321 5331 5341 5351 5361 5371 5381 5391
	5661
Philco	0051 0161 0271 0291 0361 0421 0501 0551 0621
	0631 0661 0711
Philips	0051 0161 0271 0321 0361 0421 0461 0551 0631
	0661 0711 2141 2351 5401 5411 5421 5431 5451 5461 5471 5481 5491 5501 5531 5541 5551 5601
	5621
Pioneer	0051 0621 0681 0721 0751 1061 1241 1581 1971
	4081 4111
Proton	0051 0161 0621 0651 2491
Quasar	0711 0741 0801 1401 2281 5651 5661
Radio Shack	0431 1521 2481
Radio Shack/Realistic	0051 0161 0381 0391 0431 0541 0621 1431 1561
RCA	6641 0001 0051 0221 0391 0501 0621 0661 0711 0871 0911 0921 0941 1001 1041 1071 1091 1181
	1211 1241 1301 1461 1491 1521 1531 2291 2481
	4361 5671 5681 5691 5701 5711 5721
Realistic	0431 1521
Runco	0011
Samsung	0051 0161 0501 0531 0621 0661 0851 0931 1021
	1141 1431 1561 1591 1601 1771 1811 1821 1831 1841 1851 1861 1931 2081 2101 2311 4011 4061
I	
Sanvo	5731
Sanyo Sears	
	5731 0051 0261 0401 0431 0791 0901 1151 2461 0051 0151 0191 0251 0311 0331 0391 0401 0411 0431 0621 0661 0881 1041 1081 1151 1481 1521
Sears	5731 0051 0261 0401 0431 0791 0901 1151 2461 0051 0151 0191 0251 0311 0331 0391 0401 0411 0431 0621 0661 0881 1041 1081 1151 1481 1521 2461 2481
	5731  0051 0261 0401 0431 0791 0901 1151 2461  0051 0151 0191 0251 0311 0331 0391 0401 0411 0431 0621 0661 0881 1041 1081 1151 1481 1521 2461 2481  0051 0111 0161 0351 0541 0581 0611 0621 0731
Sears	5731  0051 0261 0401 0431 0791 0901 1151 2461  0051 0151 0191 0251 0311 0331 0391 0401 0411 0431 0621 0661 0881 1041 1081 1151 1481 1521 2461 2481  0051 0111 0161 0351 0541 0581 0611 0621 0731 0891 1101 1561 1721 1871 1881 1941 2181 2341
Sears Sharp	5731  0051 0261 0401 0431 0791 0901 1151 2461  0051 0151 0191 0251 0311 0331 0391 0401 0411 0431 0621 0661 0881 1041 1081 1151 1481 1521 2461 2481  0051 0111 0161 0351 0541 0581 0611 0621 0731 0891 1101 1561 1721 1871 1881 1941 2181 2341 5741 5751 5761 5771
Sears	5731  0051 0261 0401 0431 0791 0901 1151 2461  0051 0151 0191 0251 0311 0331 0391 0401 0411 0431 0621 0661 0881 1041 1081 1151 1481 1521 2461 2481  0051 0111 0161 0351 0541 0581 0611 0621 0731 0891 1101 1561 1721 1871 1881 1941 2181 2341
Sears Sharp	5731  0051 0261 0401 0431 0791 0901 1151 2461  0051 0151 0191 0251 0311 0331 0391 0401 0411 0431 0621 0661 0881 1041 1081 1151 1481 1521 2461 2481  0051 0111 0161 0351 0541 0581 0611 0621 0731 0891 1101 1561 1721 1871 1881 1941 2181 2341 5741 5751 5761 5771  0441 1111 1231 1511 2401 2411 2431 1891 1901
Sears Sharp Sony Soundesign	5731  0051 0261 0401 0431 0791 0901 1151 2461  0051 0151 0191 0251 0311 0331 0391 0401 0411 0431 0621 0661 0881 1041 1081 1151 1481 1521 2461 2481  0051 0111 0161 0351 0541 0581 0611 0621 0731 0891 1101 1561 1721 1871 1881 1941 2181 2341 5741 5751 5761 5771  0441 1111 1231 1511 2401 2411 2431 1891 1901 2061 2421 5781 5791 5801 5811 5821 5831 5841 5851 5861 5871 5881 5891 5901 5911
Sharp Sony	5731  0051 0261 0401 0431 0791 0901 1151 2461  0051 0151 0191 0251 0311 0331 0391 0401 0411 0431 0621 0661 0881 1041 1081 1151 1481 1521 2461 2481  0051 0111 0161 0351 0541 0581 0611 0621 0731 0891 1101 1561 1721 1871 1881 1941 2181 2341 5741 5751 5761 5771  0441 1111 1231 1511 2401 2411 2431 1891 1901 2061 2421 5781 5791 5801 5811 5821 5831 5841 5851 5861 5871 5881 5891 5901 5911  0051 0151 0381 0551 0621 2481
Sears Sharp Sony Soundesign	5731  0051 0261 0401 0431 0791 0901 1151 2461  0051 0151 0191 0251 0311 0331 0391 0401 0411 0431 0621 0661 0881 1041 1081 1151 1481 1521 2461 2461 2481  0051 0111 0161 0351 0541 0581 0611 0621 0731 0891 1101 1561 1721 1871 1881 1941 2181 2341 5741 5751 5761 5771  0441 1111 1231 1511 2401 2411 2431 1891 1901 2061 2421 5781 5791 5801 5811 5821 5831 5841 5851 5861 5871 5881 5891 5901 5911  0051 0151 0381 0551 0621 2481  0051 0071 0271 0291 0341 0361 0421 0551 0621 0631 0661 0861 1441 2191 2201 4151 4441 5921
Sears Sharp Sony Soundesign Sylvania	5731  0051 0261 0401 0431 0791 0901 1151 2461  0051 0151 0191 0251 0311 0331 0391 0401 0411 0431 0621 0661 0881 1041 1081 1151 1481 1521 2461 2461  0051 0111 0161 0351 0541 0581 0611 0621 0731 0891 1101 1561 1721 1871 1881 1941 2181 2341 5741 5751 5761 5771  0441 1111 1231 1511 2401 2411 2431 1891 1901 2061 2421 5781 5791 5801 5811 5821 5831 5841 5851 5861 5871 5881 5891 5901 5911  0051 0151 0381 0551 0621 2481  0051 0071 0271 0291 0341 0361 0421 0551 0621 0631 0661 0861 1441 2191 2201 4151 4441 5921 5931
Sears Sharp Sony Soundesign	5731  0051 0261 0401 0431 0791 0901 1151 2461  0051 0151 0191 0251 0311 0331 0391 0401 0411 0431 0621 0661 0881 1041 1081 1151 1481 1521 2461 2461 2481  0051 0111 0161 0351 0541 0581 0611 0621 0731 0891 1101 1561 1721 1871 1881 1941 2181 2341 5741 5751 5761 5771  0441 1111 1231 1511 2401 2411 2431 1891 1901 2061 2421 5781 5791 5801 5811 5821 5831 5841 5851 5861 5871 5881 5891 5901 5911  0051 0151 0381 0551 0621 2481  0051 0071 0271 0291 0341 0361 0421 0551 0621 0631 0661 0861 1441 2191 2201 4151 4441 5921
Sears Sharp Sony Soundesign Sylvania Tandy	5731  0051 0261 0401 0431 0791 0901 1151 2461  0051 0151 0191 0251 0311 0331 0391 0401 0411 0431 0621 0661 0881 1041 1081 1151 1481 1521 2461 2461 2481  0051 0111 0161 0351 0541 0581 0611 0621 0731 0891 1101 1561 1721 1871 1881 1941 2181 2341 5741 5751 5761 5771  0441 1111 1231 1511 2401 2411 2431 1891 1901 2061 2421 5781 5791 5801 5811 5821 5831 5841 5851 5861 5871 5881 5891 5901 5911  0051 0151 0381 0551 0621 2481  0051 0071 0271 0291 0341 0361 0421 0551 0621 0631 0661 0861 1441 2191 2201 4151 4441 5921 5931
Sears Sharp Sony Soundesign Sylvania Tandy Technics	5731  0051 0261 0401 0431 0791 0901 1151 2461  0051 0151 0191 0251 0311 0331 0391 0401 0411 0431 0621 0661 0881 1041 1081 1151 1481 1521 2461 2461 2481  0051 0111 0161 0351 0541 0581 0611 0621 0731 0891 1101 1561 1721 1871 1881 1941 2181 2341 5741 5751 5761 5771  0441 1111 1231 1511 2401 2411 2431 1891 1901 2061 2421 5781 5791 5801 5811 5821 5831 5841 5851 5861 5871 5881 5891 5901 5911  0051 0151 0381 0551 0621 2481  0051 0071 0271 0291 0341 0361 0421 0551 0621 0631 0661 0861 1441 2191 2201 4151 4441 5921 5931
Sears Sharp Sony Soundesign Sylvania Tandy Technics	5731  0051 0261 0401 0431 0791 0901 1151 2461  0051 0151 0191 0251 0311 0331 0391 0401 0411 0431 0621 0661 0881 1041 1081 1151 1481 1521 2461 2481  0051 0111 0161 0351 0541 0581 0611 0621 0731 0891 1101 1561 1721 1871 1881 1941 2181 2341 5741 5751 5761 5771  0441 1111 1231 1511 2401 2411 2431 1891 1901 2061 2421 5781 5791 5801 5811 5821 5831 5841 5851 5861 5871 5881 5891 5901 5911  0051 0151 0381 0551 0621 2481  0051 0071 0271 0291 0341 0361 0421 0551 0621 0631 0661 0861 1441 2191 2201 4151 4441 5921 5931  1101  0741  0051 0081 0151 0161 0191 0341 0381 0471 0501 0551 0621 0851 0851 1271 1401 1561 2481  0001 0021 0071 0411 0431 0831 0841 0851 0881
Sears Sharp Sony Soundesign Sylvania Tandy Technics Teknika	5731  0051 0261 0401 0431 0791 0901 1151 2461  0051 0151 0191 0251 0311 0331 0391 0401 0411 0431 0621 0661 0881 1041 1081 1151 1481 1521 2461 2481  0051 0111 0161 0351 0541 0581 0611 0621 0731 0891 1101 1561 1721 1871 1881 1941 2181 2341 5741 5751 5761 5771  0441 1111 1231 1511 2401 2411 2431 1891 1901 2061 2421 5781 5791 5801 5811 5821 5831 5841 5851 5861 5871 5881 5891 5901 5911  0051 0151 0381 0551 0621 2481  0051 0071 0271 0291 0341 0361 0421 0551 0621 0631 0661 0861 1441 2191 2201 4151 4441 5921 5931  1101  0741  0051 0081 0151 0161 0191 0341 0381 0471 0501 0551 0621 0851 0851 1271 1401 1561 2481  0001 0021 0071 0411 0431 0831 0841 0851 0881 1341 1611 1621 1681 1781 1951 2121 2461 2491
Sears Sharp Sony Soundesign Sylvania Tandy Technics Teknika	5731  0051 0261 0401 0431 0791 0901 1151 2461  0051 0151 0191 0251 0311 0331 0391 0401 0411 0431 0621 0661 0881 1041 1081 1151 1481 1521 2461 2481  0051 0111 0161 0351 0541 0581 0611 0621 0731 0891 1101 1561 1721 1871 1881 1941 2181 2341 5741 5751 5761 5771  0441 1111 1231 1511 2401 2411 2431 1891 1901 2061 2421 5781 5791 5801 5811 5821 5831 5841 5851 5861 5871 5881 5891 5901 5911  0051 0151 0381 0551 0621 2481  0051 0071 0271 0291 0341 0361 0421 0551 0621 0631 0661 0861 1441 2191 2201 4151 4441 5921 5931  1101  0741  0051 0081 0151 0161 0191 0341 0381 0471 0501 0551 0621 0851 1271 1401 1561 2481  0001 0021 0071 0411 0431 0831 0841 0851 0881 1341 1611 1621 1681 1781 1951 2121 2461 2491 4071 4371 5951 5971 6041 6101 6111 6121 6131
Sears Sharp Sony Soundesign Sylvania Tandy Technics Teknika	5731  0051 0261 0401 0431 0791 0901 1151 2461  0051 0151 0191 0251 0311 0331 0391 0401 0411 0431 0621 0661 0881 1041 1081 1151 1481 1521 2461 2481  0051 0111 0161 0351 0541 0581 0611 0621 0731 0891 1101 1561 1721 1871 1881 1941 2181 2341 5741 5751 5761 5771  0441 1111 1231 1511 2401 2411 2431 1891 1901 2061 2421 5781 5791 5801 5811 5821 5831 5841 5851 5861 5871 5881 5891 5901 5911  0051 0151 0381 0551 0621 2481  0051 0071 0271 0291 0341 0361 0421 0551 0621 0631 0661 0861 1441 2191 2201 4151 4441 5921 5931  11101  0741  0051 0081 0151 0161 0191 0341 0381 0471 0501 0551 0621 0851 1271 1401 1561 2481  0001 0021 0071 0411 0431 0831 0841 0851 0881 1341 1611 1621 1681 1781 1951 2121 2461 2491 4071 4371 5951 5971 6041 6101 6111 6121 6131 6141
Sears Sharp Sony Soundesign Sylvania Tandy Technics Teknika Toshiba	5731  0051 0261 0401 0431 0791 0901 1151 2461  0051 0151 0191 0251 0311 0331 0391 0401 0411 0431 0621 0661 0881 1041 1081 1151 1481 1521 2461 2481  0051 0111 0161 0351 0541 0581 0611 0621 0731 0891 1101 1561 1721 1871 1881 1941 2181 2341 5741 5751 5761 5771  0441 1111 1231 1511 2401 2411 2431 1891 1901 2061 2421 5781 5791 5801 5811 5821 5831 5841 5851 5861 5871 5881 5891 5901 5911  0051 0151 0381 0551 0621 2481  0051 0071 0271 0291 0341 0361 0421 0551 0621 0631 0661 0861 1441 2191 2201 4151 4441 5921 5931  1101  0741  0051 0081 0151 0161 0191 0341 0381 0471 0501 0551 0621 0851 1271 1401 1561 2481  0001 0021 0071 0411 0431 0831 0841 0851 0881 1341 1611 1621 1681 1781 1951 2121 2461 2491 4071 4371 5951 5971 6041 6101 6111 6121 6131
Sears Sharp Sony Soundesign Sylvania Tandy Technics Teknika Toshiba	5731  0051 0261 0401 0431 0791 0901 1151 2461  0051 0151 0191 0251 0311 0331 0391 0401 0411 0431 0621 0661 0881 1041 1081 1151 1481 1521 2461 2481  0051 0111 0161 0351 0541 0581 0611 0621 0731 0891 1101 1561 1721 1871 1881 1941 2181 2341 5741 5751 5761 5771  0441 1111 1231 1511 2401 2411 2431 1891 1901 2061 2421 5781 5791 5801 5811 5821 5831 5841 5851 5861 5871 5881 5891 5901 5911  0051 0151 0381 0551 0621 2481  0051 0071 0271 0291 0341 0361 0421 0551 0621 0631 0661 0861 1441 2191 2201 4151 4441 5921 5931  1101  0741  0051 0081 0151 0161 0191 0341 0381 0471 0501 0551 0621 0851 1271 1401 1561 2481  0001 0021 0071 0411 0431 0831 0841 0851 0881 1341 1611 1621 1681 1781 1951 2121 2461 2491 4071 4371 5951 5971 6041 6101 6111 6121 6131 6141
Sears Sharp Sony Soundesign Sylvania Tandy Technics Teknika Toshiba	5731  0051 0261 0401 0431 0791 0901 1151 2461  0051 0151 0191 0251 0311 0331 0391 0401 0411 0431 0621 0661 0881 1041 1081 1151 1481 1521 2461 2481  0051 0111 0161 0351 0541 0581 0611 0621 0731 0891 1101 1561 1721 1871 1881 1941 2181 2341 5741 5751 5761 5771  0441 1111 1231 1511 2401 2411 2431 1891 1901 2061 2421 5781 5791 5801 5811 5821 5831 5841 5851 5861 5871 5881 5891 5901 5911  0051 0151 0381 0551 0621 2481  0051 0071 0271 0291 0341 0361 0421 0551 0621 0631 0661 0861 1441 2191 2201 4151 4441 5921 5931  1101  0741  0051 0081 0151 0161 0191 0341 0381 0471 0501 0551 0621 0851 1271 1401 1561 2481  0001 0021 0071 0411 0431 0831 0841 0851 0881 1341 1611 1621 1681 1781 1951 2121 2461 2491 4071 4371 5951 5971 6041 6101 6111 6121 6131 6141  0051 0081 0141 0151 0181 0211 0271 0321 0341 0361 0391 0421 0501 0541 0621 0631 0661 1051 1521 2491
Sears Sharp Sony Soundesign Sylvania Tandy Technics Teknika Toshiba Wards	5731  0051 0261 0401 0431 0791 0901 1151 2461  0051 0151 0191 0251 0311 0331 0391 0401 0411 0431 0621 0661 0881 1041 1081 1151 1481 1521 2461 2481  0051 0111 0161 0351 0541 0581 0611 0621 0731 0891 1101 1561 1721 1871 1881 1941 2181 2341 5751 5761 5771  0441 1111 1231 1511 2401 2411 2431 1891 1901 2061 2421 5781 5791 5801 5811 5821 5831 5841 5851 5861 5871 5881 5891 5901 5911  0051 0151 0381 0551 0621 2481  0051 0071 0271 0291 0341 0361 0421 0551 0621 0631 0661 0861 1441 2191 2201 4151 4441 5921 5931  1101  0741  0051 0081 0151 0161 0191 0341 0381 0471 0501 0551 0621 0851 1271 1401 1561 2481  00001 0021 0071 0411 0431 0831 0841 0851 0881 1341 1611 1621 1681 1781 1951 2121 2461 2491 4071 4371 5951 5971 6041 6101 6111 6121 6131 6141  0051 0081 0141 0151 0181 0211 0271 0321 0341 0361 0391 0421 0501 0541 0621 0631 0661 1051 1521 2491

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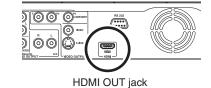
# **Preparation**

Proceed the following steps to set the player ready.

Step 1: Connecting to a TV	Page 14
Step 2: Connecting to audio system	Page 15
	•
Step 3: LAN connection	Page 17
Step 4: Power connection	Page 18
Step 5: Powering on	Page 18
Step 6: Setting up the player	Page 19

## **Resolution and connections**

Check the type of video input on your TV. To view high definition content, use the HDMI OUT jack or the COMPONENT VIDEO OUTPUT jacks to connect to a TV. Some discs may require use of the HDMI OUT jack.



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
HDMI input HDMI INPUT  Most recommended*	Viewable. To view 1080p output, make this connection.	Open the cover.  1 2  Mode  Be sure to set while the power is off.	14
Component video input  PB PB PR	Viewable. (Some discs may be down converted or require HDMI connection.) Not compatible with 1080p. To view 1080p output, select HDMI connection.	Open the cover.  Be sure to set while the power is off.	14
S-VIDEO or VIDEO (yellow) input	Down converted. (Some discs may require HDMI connection.)	Open the cover.  1	15

#### \*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 or 480p) from the COMPONENT VIDEO OUTPUT jacks. If such instructions are present in the disc you are playing, you must use the HDMI OUT jack to view the disc in a high definition format and the COMPONENT VIDEO OUTPUT jacks, if activated, will output video only in 480i or 480p resolution.

# **Preparation (Continued)**

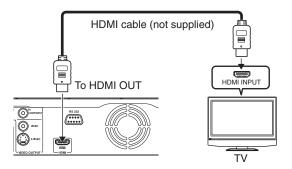
# Step 1: Connecting to a TV

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

#### Via HDMI input

#### To view 1080p output, make this connection.

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.

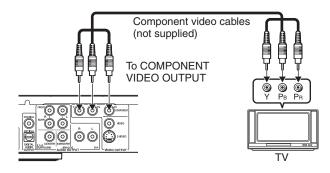


#### Notes

- 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.
- To get the most possible benefit from Dolby Digital Plus, you should connect your HD DVD player to your AV receiver using its HDMI input. If your AV receiver has this type of input, make sure it is connected to your HD DVD player and that the input is set to use audio from HDMI (and not the SPDIF coaxial or optical input). If your AV receiver does not have an HDMI input, then the next best choice is to use the SPDIF (coaxial or optical) input on your AV receiver.
- If you use the SPDIF (coaxial or optical) output or analog outputs
  to connect your audio system and have the "Digital Out HDMI"
  ( page 22) set to "Auto" or "PCM", the audio output level from
  these jacks will be reduced when listening to a multichannel
  disc. To restore the audio output level, set "Digital Out HDMI" to
  "Downmixed PCM".
- Be sure to confirm compatibility of a cable when connecting a Deep Color compatible display device.
   When the output resolution (⇒ page 21) is set to "up to 1080p/24Hz", Deep Color output is disabled.

#### Via component video input

Some discs may be down converted or require HDMI connection. Not compatible with 1080p. To view 1080p output, select HDMI connection.

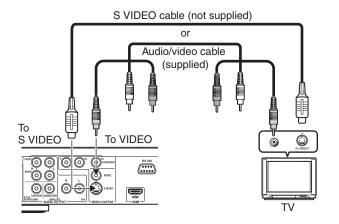


This connection only sends video signals. Be sure to make audio connection on ⇒ page 15.

#### Note

• 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.

## Via S VIDEO or VIDEO (yellow) input



480i output only regardless of the resolution settings (⇒ page 21) or the connections of other output jack.

This connection only sends video signals. Be sure to make audio connection on ⇒ page 15.

# Step 2: Connecting to audio system

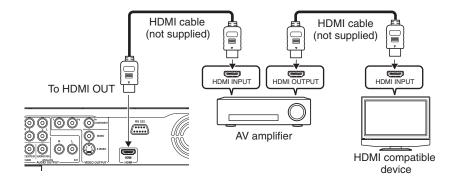
Sound can output from connected audio system.

If you made the HDMI connection between the player and a TV, this step is unnecessary. Skip to Step 3.

## Via HDMI output

You can enjoy the benefits of Dolby Digital Plus or Dolby TrueHD by connecting the HDMI OUT jack of your player to an AV receiver with an HDMI audio input.

This connection requires selection of "Digital Out HDMI" (Step 16, ⇒ page 23).



#### Caution

When you are connecting (via the HDMI OUT jack) an AV decoder that does not have Dolby Digital or DTS decoding capability, be sure to set "Digital Out HDMI" (page 23) to "PCM" or "Downmixed PCM". Otherwise, high volume sound may damage your hearing as well as the speakers.

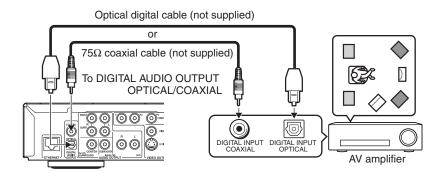
#### Note

 You may need to adjust the HDMI audio output to match the capabilities of your AV amplifier.
 In this case, set "Digital Out HDMI" (⇒ page 23) to "PCM".

## Via digital audio output

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.

This connection requires selection of "Digital Out SPDIF" (Step 16, ⇒ page 23).

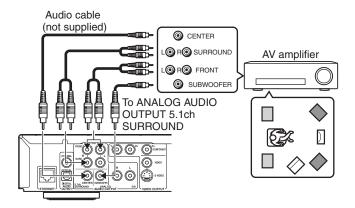


To use the digital output, use an optical /coaxial cable to connect either of these jacks to an audio input on a device capable of processing Dolby Digital, DTS bitstream, or PCM audio.

# **Preparation (Continued)**

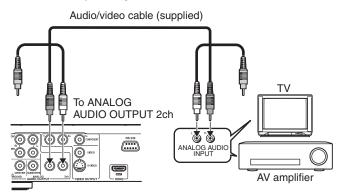
## Via 5.1ch analog audio output

This connection requires selection of "Speaker Setting" (Step 16, ⇒ page 24).



## Via analog audio output

Sound is output only in 2ch format.



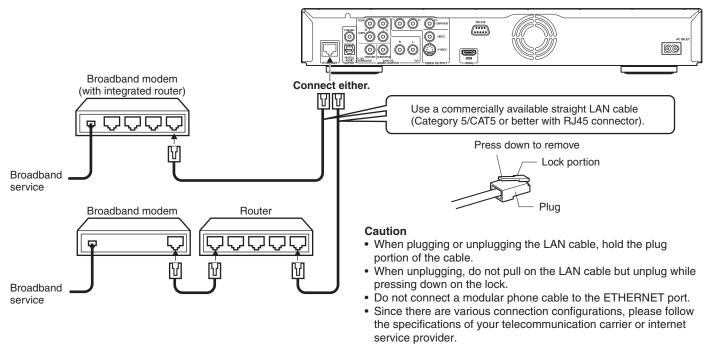
This connection only sends audio signals. Be sure to make video connection on 

page 14.

# **Step 3: LAN connection**

You may use the internet connection feature to update the player's firmware. See ⇒ page 39. Some 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.

Read the notes on ⇒ page 31 as well.



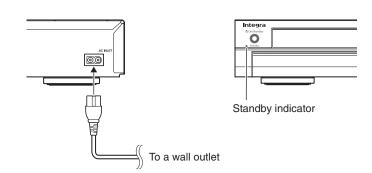
#### Note

 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.

# **Preparation (Continued)**

# **Step 4: Power connection**

After completing all connections, connect the supplied power cord to the AC INLET socket and a wall outlet.



Standby indicator on the player illuminates in red.

#### Caution

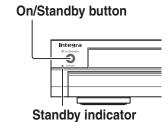
- Do not power this player using any power cord other than the one supplied with this player.
- Do not use the supplied power cord with any device other than this player.

# Step 5: Powering on

- 1 Turn on the TV or monitor, and select the input which the player is connected to.
- **2** Press On/Standby.

On/Standby button





When the power turns on, Standby indicator on the front panel changes color from red (standby mode) to blue (operation).

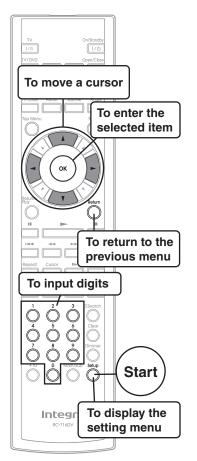
Start up (and disc loading (⇒ page 27)) may take time.

When you power on this player for the first time, the setting menu will appear. Go to Step 6 to make the necessary setup.

■ To power off the player Press On/Standby.

# Step 6: Setting up the player

Make the settings which are necessary to operate the player.

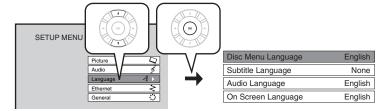


1 Make sure that the following menu is displayed. (If not, press Setup to display it.)

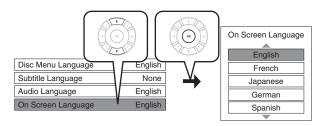


## A: Language

**2** Press ▲ / ▼ to select "Language", then press OK.



**3** Press **△** / **▼** to select "On Screen Language", then press OK.

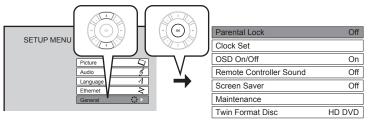


- 4 Press ▲ / ▼ to select the language you want use for on-screen displays, then press OK.
- **5** Press Return or **◄** to return to the menu of step 1.

# Preparation (Continued)

## **B: Time**

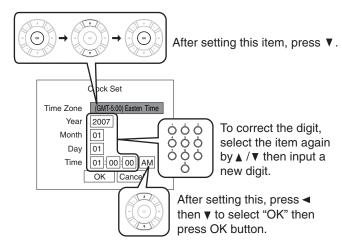
6 Press ▲ / ▼ to select "General", then press OK.



10 Press RETURN or ■ to return to the menu of step 1.

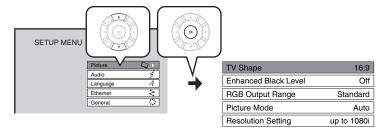
- 7 Press ▲ / ▼ to select "Clock Set", then press OK.
- 8 Confirm the time is correct.
- 9 If the time is correct, select "OK" by ▲ / ▼, then press OK to return to the menu of step 6.

When the time needs to be corrected, set each item using the following buttons.

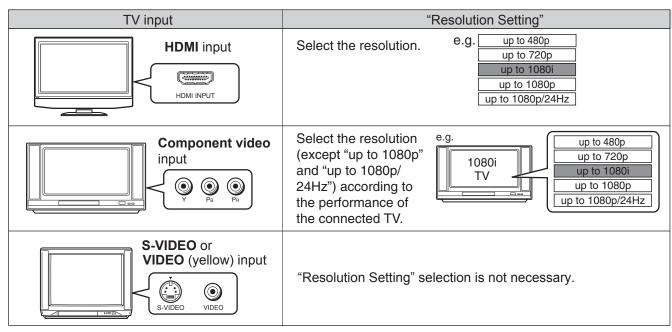


#### C: Resolution

11 Press ▲ / ▼ to select "Picture", then press OK.



- 12 Press ▲ / ▼ to select "Resolution Setting", then press OK.
- 13 Press ▲ / ▼ to select the resolution according to the performance of your TV as shown in the table below, then press OK.



- 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.

#### For best viewing of film movie material (24p output) HD DVD DVD-Video

Movies that are produced on film, as opposed to video, are traditionally captured at a frame rate of 24 frames per second. Your player can maintain the 24 frames per second frame rate of such movies, allowing you to enjoy them in their native form. To enable this feature, connect an HD display capable of accepting a 1080p/24Hz signal and select "up to 1080p/24Hz."

#### Note

 Most film based HD DVDs display images at 24 frames per second and video based HD DVDs display images at 30 frames or 60 fields per second. Depending on the content, "up to 1080p/24Hz" may lower smoothness of playback and/or reduce vertical resolution. In the case of video based HD DVDs, we recommend that the output resolution setting is changed from "up to 1080p/24Hz".

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# Preparation (Continued)

## ■ Settings and actual output resolution

MODE switch	Output jacks on	"Re	solution Settii	ng" ( ເ⇒page 2°	1)	
(⇔ page 20)	the player	up to 480p	up to 720p	up to 1080i	up to 1080p up to 1080p/24Hz	
1 2 Mode	CUB HDMI	480p	720p (maximum)¹	1080i (maximum)¹	1080p (maximum) <sup>1</sup>	
	Y O Pa ODMPONENT	480p²	720p²	1080i²	No video output.	
	video video video video output	No video output.				
	OUTS HDMI	No video output.				
1 Mode 2	Y PR PR COMPONENT	480i				
	VIDEO OUTPUT	480i				

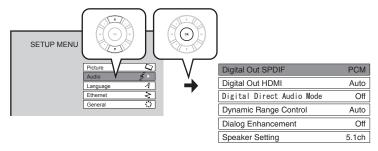
<sup>&</sup>lt;sup>1</sup> Maximum of the player's actual resolution according to a connected HDMI TV. The order of precedence is 1080p>1080i>720p>480p.

**14** Press Return or **◄** to return to the menu of step 1.

<sup>&</sup>lt;sup>2</sup> 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., <sup>1</sup>.

## D: Audio output

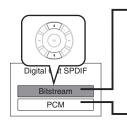
# **15** Press ▲ / ▼ to select "Audio", then press OK.



# 16 When you connected an audio system to the <u>DIGITAL AUDIO OUTPUT OPTICAL/COAXIAL</u> jack (⇒ page 16):

Press ▲ / ▼ to select "Digital Out SPDIF", then press OK.

Select one of the followings according to your connection, and press OK.



#### Bitstream

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. If the AV receiver or processor does not support DTS, select "PCM".

#### PCM

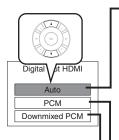
#### When a 2ch digital stereo amplifier is connected to this player.

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 (2ch) format.

When you connected an HDMI device to the <u>HDMI OUT</u> jack (⇒ page 14, 15):

#### Press ▲ / ▼ to select "Digital Out HDMI", then press OK.

Select one of the followings according to your connection, and press OK.



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

When you play a disc recorded in Dolby Digital Plus, Dolby TrueHD or DTS-HD, PCM is output (core only for DTS-HD)

When you play a disc recorded in Dolby Digital or DTS format, digital audio signal (bitstream audio) is output. If a connected HDMI device does not support Dolby Digital, DTS or MPEG, sound is converted into linear PCM to output.

To output high bitrate audio, select "Auto", then make another setting. For details, see ⇒ page 34.

#### PCM

#### When an HDMI device which has multi channel input is connected to this player.

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

#### **Downmixed PCM**

#### When a 2ch digital stereo AV receiver or processor is connected to this player.

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

#### Note

- Setting "Auto" or "PCM" will reduce output level of multi channel sound from the ANALOG AUDIO OUTPUT 2ch jacks and the DIGITAL AUDIO OUTPUT OPTICAL/COAXIAL jack if you:
- view the playback picture on an HDMI TV connected to this player.
- play an HD DVD video disc of a certain type, recorded in linear PCM format.

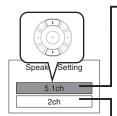
In this case, the output level will be restored by setting to "Downmixed PCM".

# **Preparation (Continued)**

When you connected an audio system to the <u>ANALOG AUDIO OUTPUT</u> jacks (⇒ page 16):

Press ▲ / ▼ to select "Speaker Setting", then press OK.

Select one of the followings according to your connection, and press OK.



5.1cn

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

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

#### 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 this frequency (80Hz / 100Hz / 120Hz) will be output to a connected subwoofer.

#### ft

Select a distance to each speaker from the listening position.

2 Select "Next", then press OK.

To cancel to return to the previous screen, select "Clear", then press OK. To save your selection and finish the setting, select "End", then press OK.

3 Select "Automatic Test Tone", then press OK.

A test signal is set to each speaker.

A loud test sound will be emitted. If you usually listen at a low volume, please take care.

4 Adjust each of the volumes by ▲ / ▼, 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 "End", then press OK.

# e.g. Front Left O dB O dB

e.a.

Front

0.00

#### Note

 This setting is effective only when "Digital Out SPDIF" (\$\infty\$ page 23) is set to "PCM".

2ch

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

17 Press Return or ◀ to return to the menu of step 1.

(Continued)

DHS-8, 8 En. indb

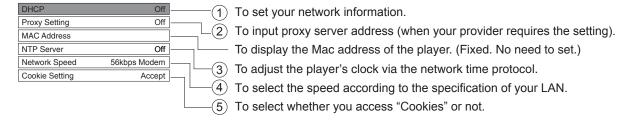
#### E: Ethernet

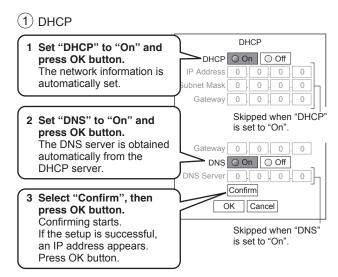
Perform this setting if you connect the player to your LAN (⇒ page 17).

After performing this setting, you need to turn off this player and turn it on again to activate this setting. If you do not connect, skip to Step 20.

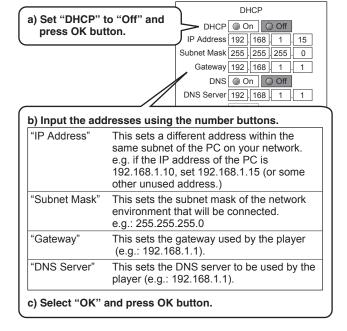
# 18 Press ▲ / ▼ to select "Ethernet", then press OK.

# 19 Press ▲ / ▼ to select each of the followings, then press OK.



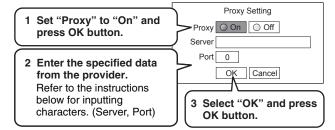


#### If the setup is not successful:



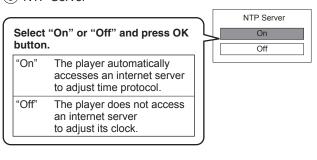
#### (2) Proxy Setting

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

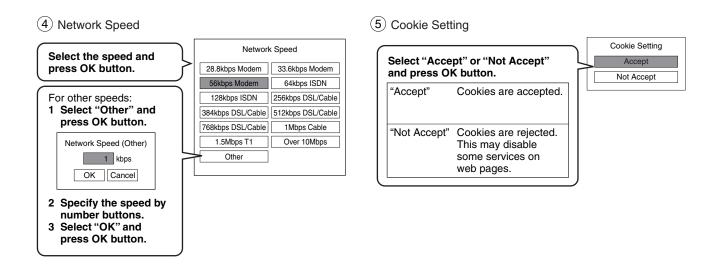


How to input characters			
OK button	To begin or finish input.		
▲ / ▼ buttons	To select a character.		
✓ / ► buttons	To move to the next character.		
Clear button	To erase to correct.		
Number buttons	To input a number.		

#### (3) NTP Server



# **Preparation (Continued)**



- 20 Press Return or ◀ to return to the menu of step 1.
- 21 Press Setup to close the menu.
- 22 If you made the LAN setting ("E: Ethernet", ⇒ page 25), press On/Standby to turn the player off, then press the button again to turn it on.

Your player is ready.

# **Playing**

#### Preparation

- Turn on the TV or audio system and select the corresponding input source that the player is connected to.
- Turn the power on. (⇒ page 18)

# Playing a disc

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

Press Open/Close to open the disc tray.

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.

Playback starts.

If playback does not start, press ► (Play).

HD DVD DVD-Video If a loaded disc contains a top menu, a top menu appears when you start playback.

Select a title by  $\triangle / \nabla / \blacktriangleleft / \triangleright$  (or **number buttons**), then press **OK**.

Playback starts from chapter 1 of the selected title.

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

DVD-RW DVD-R

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

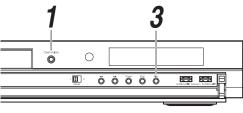
Press **Menu**, and select a title by  $\triangle / \nabla / \triangleleft / \triangleright$ , then press **OK**.

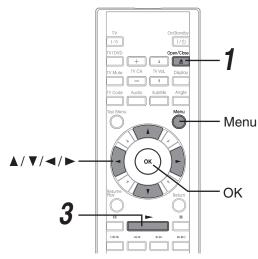
Playback starts from the selected item.

· 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.

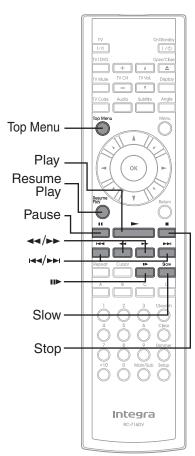
#### Notes

- · 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 the dealer from whom you purchased this unit.





# **Playing (Continued)**



#### To pause playback

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

#### Press II (Pause).

To resume press ► (Play).

#### To stop playback

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

Press ■ (Stop).

## To resume playback from the location last stopped

HD DVD DVD-Video DVD-RW DVD-R

After stopping playback, press Resume Play (HD DVD) or ► (Play) (DVD-Video DVD-RW DVD-RW CD ).

If you want to return to the beginning, press ■ (Stop), then press ▶ (Play).

#### Notes

- · Resume feature cannot function when:
- you select a disc menu language ( $\Rightarrow$  page 36) or change the parental lock setting ( $\Rightarrow$  page 38).
- 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.

# Basic operations table HD DVD DVD-Video DVD-RW DVD-R CD

Button	Function	Operation	To cancel
<b>44</b>	Fast reverse playback	Pressing this button repeatedly changes the playback speed.	► (Play)
<b>&gt;&gt;</b>	Fast forward playback	Pressing this button repeatedly changes the playback speed.	► (Play)
Slow*1	Playing in slow-motion	Pressing this button repeatedly changes the playback speed.	► (Play)
*1*2	Playing frame by frame	1 Press II (Pause) to pause playback. 2 Press this button repeatedly.	► (Play)
►►I	To skip to the next chapter/track	Press this button once.	_
l <b>⊲</b> ∢	To return to the previous chapter/track	Pressing this button once locates the beginning of the current chapter or track.  Pressing this button twice locates the beginning of the previous chapter or track.	_
Top Menu*1	To display a top menu	<ul> <li>1 Press this button.</li> <li>2 Press ▲/▼/◄/▶ to select a title.</li> <li>3 Press OK.</li> </ul>	Top Menu

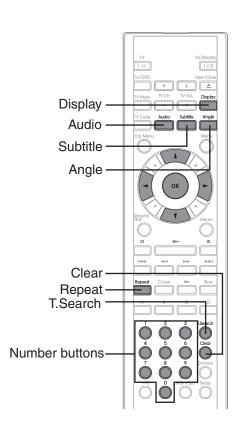
<sup>\*1</sup> Not available in CD playback.

#### Note

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• 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.

<sup>\*2</sup> Some discs may not permit this operation.



#### To select 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.

The current audio setting appears. (except for some HD DVD discs)



A language code (⇒ page 37) may appear.

# 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 36). 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.

#### To select subtitles

#### HD DVD DVD-Video

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

## 1 During playback, press Subtitle.

The current subtitle setting appears. (except for some HD DVD discs)



A language code (⇒ page 37) may appear.

Each time you press ◀ / ▶, "On" and "Off" alternates. 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 36). 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.

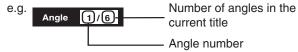
#### To select the camera angle

#### 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 While playing a scene recorded with multiple angles (angle icon (♠) displayed on the TV and the front panel), press Angle.

The current angle setting appears. (except for some HD DVD discs)



# **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 (Continued)**

## To locate a position

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

1 Press T.Search repeatedly to select the category.

Category	To search by specifying:
Title	Title number
Chapter	Chapter number
Time	Elapsed time of the current title (track)
Track	Track number

**2** Press the number buttons to enter a number.

e.g. To enter 25:

"2" → "5<sup>3</sup>

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

"1" 
$$\rightarrow$$
 "2"  $\rightarrow$  "5"  $\rightarrow$  "3" $\rightarrow$  "0"

Pressing Clear resets the numbers.

3 Press OK.

Playback starts from the specified location.

#### **Notes**

- Some discs may not permit these operations.
- While the ADV indicator on the front panel illuminates, these features are not available.

# To play repeatedly

DVD-Video DVD-RW DVD-R CD

1 During playback, press Repeat.

The repeat modes are listed.

2 Press ▲ / ▼ to select the repeat mode.

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

Mode	To repeat:
All Repeat	Entire disc
Title Repeat	Current title
Chapter Repeat	Current chapter
Track Repeat	Current track
Disc Repeat	Entire disc
A-B Repeat	You can specify a segment to repeat.  Select this and press OK.  "AB Repeat A Point" appears.  Perform steps 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  "AB Repeat B Point".  • To cancel the setting, press Repeat.  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.
Cancel	Repeat playback is canceled.

## 3 Press OK.

Repeat playback starts.

#### **Notes**

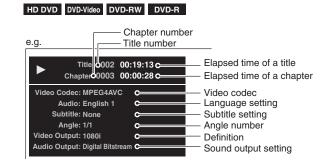
- Some discs may not permit repeat playback operation.
- You can cancel repeat playback also by pressing (Stop).

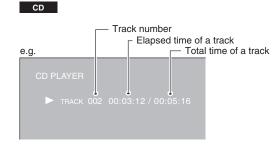
#### To check the current status

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

1 Press Display.

The following on-screen display appears.

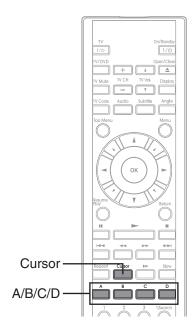




2 After confirming, press Display to turn off the display.

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# HD DVD playing options in the future



## 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.

#### **Cursor controls**

#### HD DVD

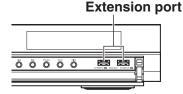
Future HD DVD discs may include game software and drawing software. If they do you can use the cursor function for some software.

- Press Cursor while a disc with support for cursor use is playing.
- Use the eight direction buttons to move the cursor.
  Move the cursor to select the game target or selection item. For details on actual

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.

## **Controller port**

#### HD DVD



The extension port may be used in the future for additional control options.

## Requirements for HD DVD discs/Web-enabled network content

- An always-on broadband internet connection
- An HD DVD disc containing or having the capability of downloading studio-provided, web-enabled network content.

#### Notes

- To minimize any potential compatibility and/or connectivity issues, before attempting to view any studio-provided web-enabled, network content, it is recommended that you perform the firmware update process to ensure that you HD DVD player is using the latest firmware version.
- Onkyo 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.
- Onkyo 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 Onkyo, and Onkyo 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.

# Output sound conversion table

Dies	ADV	۸ وازام	for war out	"Digital O	ut SPDIF"	"Diç	"Digital Out HDMI"		
Disc	indicator	indicator Audio format		Bitstream	PCM	Auto	PCM <sup>2</sup>	Downmixed PCM	
HD DVD		DD Plus/Dolb	oy TrueHD	Dolby Bitstream	2ch PCM	Depend on HDMI receiver	up to 5.1ch PCM3	2ch PCM1	
Video Advanced content	ADV	dts-HD/L-PC	M	DTS Bitstream	2ch PCM				
		DD plus		Bitstream	2ch PCM	Depend on HDMI receiver	up to 5.1ch PCM <sup>2</sup>	2ch PCM	
		True HD	48kHz	Dolby Bitstream	2ch PCM	Depend on HDMI receiver	up to 5.1ch PCM	2ch PCM	
			96kHz	Dolby Bitstream	2ch PCM <sup>1</sup>	Depend on HDMI receiver	up to 5.1ch PCM	2ch PCM <sup>1</sup>	
HD DVD Video			192kHz	Dolby Bitstream	2ch PCM <sup>1</sup>	Depend on HDMI receiver	2ch PCM1	2ch PCM <sup>1</sup>	
Standard	(off)	dts-HD		Bitstream	2ch PCM	Depend on HDMI receiver	up to 5.1ch PCM <sup>2</sup>	2ch PCM	
content		L-PCM	48kHz	DTS Bitstream	2ch PCM	Depend on HDMI receiver	up to 5.1ch PCM	2ch PCM	
			96kHz	DTS Bitstream	2ch PCM <sup>1</sup>	Depend on HDMI receiver	up to 5.1ch PCM3	2ch PCM <sup>1</sup>	
			192kHz	DTS Bitstream	2ch PCM <sup>1</sup>	Depend on HDMI receiver	2ch PCM <sup>3</sup>	2ch PCM <sup>1</sup>	
		MPEG		Bitstream	2ch PCM	Depend on HDMI receiver	2ch PCM	2ch PCM	
		DD		Bitstream	2ch PCM	Depend on HDMI receiver	up to 5.1ch PCM	2ch PCM	
		L-PCM	48kHz	2ch PCM	2ch PCM	2ch PCM	2ch PCM	2ch PCM	
DVD-Video	(off)		96kHz	2ch PCM1	2ch PCM <sup>1</sup>	2ch PCM	2ch PCM <sup>3</sup>	2ch PCM <sup>1</sup>	
		dts		Bitstream	2ch PCM	Depend on HDMI receiver	up to 5.1ch PCM	2ch PCM	
		MPEG		Bitstream	2ch PCM	Depend on HDMI receiver	2ch PCM	2ch PCM	
CD	(off)	L-PCM	44.1kHz	2ch PCM	2ch PCM	2ch PCM	2ch PCM	2ch PCM	
СБ	(011)	dts	44.1kHz	Bitstream	2ch PCM	Depend on HDMI receiver	up to 5.1ch PCM	2ch PCM	
		DD		Bitstream	2ch PCM	Depend on HDMI receiver	2ch PCM	2ch PCM	
DVD-VR	(off)	L-PCM		2ch PCM	2ch PCM	2ch PCM	2ch PCM	2ch PCM	
		MPEG		Bitstream	2ch PCM	Depend on HDMI receiver	2ch PCM	2ch PCM	

Disc	ADV indicator	Audio format		ANALOG AUDIO OUTPUT 5.1ch SURROUND
HD DVD Video	ADV	DD Plus/Dolby	TrueHD	up to 5.1ch PCM
Advanced content	ADV	dts-HD/L-PCM		up to 5.1ch PCM
		DD plus		up to 5.1ch PCM
		True HD	48kHz	up to 5.1ch PCM
			96kHz	up to 5.1ch PCM
HD DVD			192kHz	2ch PCM
Video Standard	(off)	dts-HD		up to 5.1ch PCM
content		L-PCM	48kHz	up to 5.1ch PCM
Contont			96kHz	up to 5.1ch PCM
			192kHz	2ch PCM
		MPEG		2ch PCM
		DD		up to 5.1ch PCM
		L-PCM	48kHz	2ch PCM
DVD-Video	(off)		96kHz	2ch PCM
		dts		up to 5.1ch PCM
		MPEG		2ch PCM
CD	(off)	L-PCM	44.1kHz	2ch PCM
CD	(011)	dts	44.1kHz	up to 5.1ch PCM
		DD		2ch PCM
DVD-VR	(off)	L-PCM		2ch PCM
		MPEG		2ch PCM

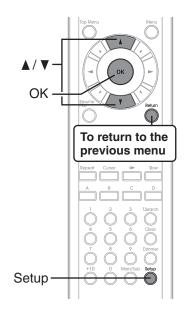
- 1: Downsampled PCM.
- 2: Up to 5.1 channel PCM audio output is possible only when the connected device supports multi channel output.

  3: This output format is possible when the resolution setting is "720p", "1080i" or "1080p". When the resolution setting is set to "480p", this output format depends on HDMI receiver.

- The main title content of most movie HD DVD discs is "advanced content". The player turns on the ADV indicator when an HD DVD disc which includes such content is loaded.
- The DIGITAL AUDIO OUTPUT OPTICAL/COAXIAL jack may not output sound you select. In this instance, set "Digital Out SPDIF" to
- The ANALOG AUDIO OUTPUT 2ch jacks always output 2ch sound only.

# **Customizing the function settings**

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



- 1 During stop, press Setup.
  - "SETUP MENU" appears.
- 2 Press ▲ / ▼ to select the group that contains a desired item, then press OK.
- **3** Press **△** / **▼** to select the setting item, then press OK.
- 4 Refer to the explanations on pages beginning from 33, to change the selection by  $\blacktriangle / \blacktriangledown$  or other buttons, then press OK.
- Repeat step 3 and 4 to set other items if necessary.
- Press Setup.
  - "SETUP MENU" disappears and the setting is completed.

Group	Setting	Disc	Details	Page
Picture	TV Shape	HD DVD DVD-Video DVD-RW DVD-R CD	To select a picture size according to the aspect ratio of your TV.	34
	Enhanced Black Level	HD DVD DVD-Video DVD-RW DVD-R	To select the black level (0 IRE or 7.5 IRE).	34
	RGB Output Range	HD DVD DVD-Video DVD-RW DVD-R	To select the RGB range according to the capacity of the connected DVI monitor.	35
	Picture Mode	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.)	35
	Resolution Setting	HD DVD DVD-Video DVD-RW DVD-R	To select the resolution of the player's output, according to the connected TV.	21
Audio	Digital Out SPDIF	HD DVD DVD-Video DVD-RW DVD-R CD	To select the output sound format when connecting the DIGITAL AUDIO OUTPUT jack.	23
	Digital Out HDMI	HD DVD DVD-Video DVD-RW DVD-R CD	To select the output sound format when connecting the HDMI OUT jack.	23
	Digital Direct Audio Mode	HD DVD	To output high bitrate audio to a connected amplifier equipped with Dolby Digital Plus, Dolby TrueHD or DTS-HD decoder.	35
	Dynamic Range Control	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.	35
	Dialog Enhancement	HD DVD DVD-Video DVD-RW DVD-R	To turn on or off a function that increases dialog volume of a disc playback.	36
	Speaker Setting	HD DVD DVD-Video DVD-RW DVD-R CD	To select various parameters for the analog 5.1ch output.	24
Language	Disc Menu Language	HD DVD DVD-Video	To select a preferred language for disc menus.	36
	Subtitle Language	HD DVD DVD-Video	To select a preferred language for subtitles.	36
	Audio Language	HD DVD DVD-Video	To select a preferred language for the sound track.	36
	On Screen Language	HD DVD DVD-Video DVD-RW DVD-R CD	To select a preferred language for on-screen displays.	36

# **Customizing the function settings (Continued)**

Group	Setting	Disc	Details	Page
Ethernet		HD DVD	To set up internet connection feature.	25
General	Parental Lock	HD DVD DVD-Video	To turn the parental lock function on or off.	38
	Clock Set	HD DVD DVD-Video DVD-RW DVD-R CD	To set the clock of the player.	20
	OSD On/Off	HD DVD DVD-Video DVD-RW DVD-R CD	To activate or deactivate the operational status display on the TV screen.	39
	Remote Controller Sound	HD DVD DVD-Video DVD-RW DVD-R CD	To turn on or off the confirmation beeper announcing when each remote command is received.	39
	Screen Saver	HD DVD DVD-Video DVD-RW DVD-R CD	To turn on or off the screen saver (screen protection to prevent image burn).	39
	Maintenance	HD DVD DVD-Video DVD-RW DVD-R CD	To reset player options to factory defaults or check for firmware updates.	39
	Twin Format Disc	HD DVD	To select the layer to play of an HD DVD Twin Format Disc. (Not available while a disc is loaded.)	39

# **Settings**

## Picture

#### Note

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

TV Shape	ΓV 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.

Enhanced Black Level	
On	To display deeper, richer black than in "Off" setting. (0 IRE)
Off	Normal black level. (7.5 IRE)

#### Note

• Effective only in 480i output from the COMPONENT VIDEO OUTPUT jacks or the VIDEO OUTPUT jack.

(Continued)

34

RGB Output Range	
Standard	For a monitor of RGB range 16-235.
Enhanced	For a monitor of RGB range 0-255.

#### Note

• If "Standard" pales black of "Enhanced" blackens too much, change the setting.

#### **Picture Mode**

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

to the type of conton	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 21.

#### **Audio**

#### **Digital Out SPDIF**

See ⇒ page 23.

#### **Digital Out HDMI**

See ⇒ page 23.

#### **Digital Direct Audio Mode**

To output high bitrate audio to a connected amplifier equipped with Dolby Digital Plus, Dolby TrueHD or DTS-HD decoder.

On	High bitrate audio output is enabled. (Sub audio and effect audio are disabled.)
Off	High bitrate audio output is disabled.

#### Notes

- This selection is available only when the player is connected to an amplifier equipped with Dolby Digital Plus, Dolby TrueHD or DTS HD decoder.
- To obtain high bitrate audio output, "Digital Out HDMI" (⇒ page 23) needs to be set to "Auto".
- While playing high bitrate audio, sound outputs from the ANALOG AUDIO OUTPUT and the DIGITAL AUIDIO OUTPUT OPTICAL/ COAXIAL jack are disabled.
- To play high bitrate audio, be sure to select input from the player on the connected amplifier beforehand. If you select it after playback starts, high bitrate audio may not be heard. In this case, you may obtain full output if you stop the player then restart the playback.

#### **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.
- Not effective in Dolby TrueHD 96 kHz 5.1 channel sound.

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# **Customizing the function settings (Continued)**

#### **Dialog Enhancement**

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

On	This function is activated.
Off	This function is disabled.

#### Notes

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

#### **Speaker Setting**

See ⇒ page 24.

#### Language

## Disc Menu Language

To select a preferred language for disc menus.

English / French / Japanese / German / Spanish / Italian / Dutch / Russian / Swedish / Finnish / Greek / Turkish	
Other	To make a further language choice.
	Refer to "How to select a language" (⇒ page 37).

#### 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.

English / French / Japanese / German / Spanish / Italian / Dutch / Russian / Swedish / Finnish / Greek / Turkish		
None	To disable subtitles.	
Other	To make a further language choice.	
	Refer to "How to select a language" (⇒ page 37).	

#### 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 / French / Japanese / German / Spanish / Italian / Dutch / Russian / Swedish / Finnish / Greek / Turkish	
Other	To make a further language choice.
	Refer to "How to select a language" (⇒ page 37).

#### Note

· Some discs may be played in a different language from that you selected, as the disc may contain alternate language.

#### On Screen Language

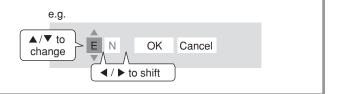
To select a preferred language for on-screen displays.

English / French / Japanese / German / Spanish / Italian / Dutch / Russian / Swedish / Finnish / Greek / Turkish

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## How to select a language:

- 1) Obtain the code from the list below.
- 2) Enter the code as below.
- 3) Select "OK" and press OK button.



Language Vletnamese Volapük

Wolof

Xhosa

Yoruba

Zulu

VI VO WO

ХН

YO

ZU

## Language code list

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

# **Customizing the function settings (Continued)**

#### **Ethernet**

See ⇒ page 25

#### 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.

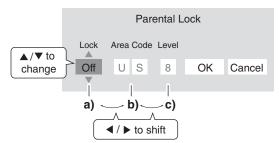
 Depending on discs, it may not be evident whether the disc is compatible with Parental Lock function. Make sure that Parental Lock function you set is activated correctly.

#### 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.



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

Deactivates the Parental Lock function. Skip b) and c) to go to 3.

b) Enter the code of a country/area whose standards were used to rate a disc, referring to the list below.

Country/Area	Code	Country/Area	Code	Country/Area	Code
AUSTRALIA	AU	INDONESIA	ID	SPAIN	ES
BELGIUM	BE	ITALY	IT	SWEDEN	BE
CANADA	CA	JAPAN	JP	SWITZERLAND	CH
CHINA	CN	MALAYSIA	MY	TAIWAN	TW
CHINA HONG KONG	HK	NETHERLANDS	NL	THAILAND	TH
DENMARK	DK	NORWAY	NO	UNITED KINGDOM	GB
FINLAND	FI	PHILIPPINES	PH	UNITED STATES	US
FRANCE	FR	RUSSIAN FEDERATION	RU		
GERMANY	DE	SINGAPORE	SG		

#### c) Select the desired limitation level.

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 6: R Level 4: PG13 Level 3: PG

### 3 Select "OK" then press OK button.

### ■ To change the limitation level of Parental Lock function

Follow steps 1 - 3 above.

### ■ To change the password

- 1 At step 1, press (Stop) button 4 times then press OK button. The password is cleared.
- 2 Enter a new 4-digit password by using the number buttons.
- 3 Press OK button.

### Clock Set

See ⇒ page 20.

### OSD On/Off

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

On	Activates the operational status display (e.g., ▶) on the TV screen.
Off	Deactivates the operational status display (e.g., ▶) on the TV screen.

#### **Remote Controller Sound**

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

On	Turns on the beep sound.			
Off	Turns off the beep sound.			

Screen Saver	
<b>Auto Power Off</b>	Turns the player off if stop mode or picture pausing continues for about 20 minutes.
On	Activates the screen saver if stop mode or picture pausing continues for about 20 minutes.
Off	Deactivates the screen saver.

#### Notes

- Onkyo does not guarantee that this function will protect your display.
- To close the screen saver, press any button on the player or the remote control.
  When an HD DVD disc is used, this function activates only in stop mode.

Maintenance	
Initialize	To reset all the settings listed on ⇒ page 33, 34 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 update over the internet using the ETHERNET port on the back of your player.  • BEFORE BEGINNING THE FIRMWARE UPDATE PROCESS, BE SURE TO REMOVE ANY DISCS FROM YOUR PLAYER.  Please configure the ETHERNET port (➡ page 17). You may need to turn on DHCP and DNS (➡ page 25).  • Press Setup and select "General" > "Maintenance". Follow the instructions on the screen.  • If a firmware update is available for your player, the player will download it. Once the firmware update download process has finished, the player's power will automatically switch off. You must wait until this process has finished.  • DO NOT UNPLUG, TURN OFF, OR USE ANY OTHER FEATURE OF YOUR PLAYER DURING THE FIRMWARE UPDATE PROCESS. Doing so will cause the writing of the firmware update to the player to be halted and the player may no longer operate properly. If the player stops working, please contact the dealer from whom you purchased this unit.  • If no firmware update is available, the player will quickly exit the firmware update process.
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).

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# Before calling service personnel

Before accessing, try updating this player's firmware. For details on how to update, see "Update (Firmware update)" ( $\Rightarrow$  page 39).

If you experience any of the following difficulties while using this unit, check the list below before consulting the dealer from whom you purchased this unit.

Symptom	Remedy	Page
No power.	Is the power plug disconnected? Check the power connection.	18
No picture.	• Is the cable for connecting the player and TV disconnected or not connected properly? Check the connections.	14
	Switch the input of the connected TV to the signal from the player.	_
	Check the settings (Mode switch and "Resolution Setting").	22
	Are both the HDMI OUT jack and the COMPONENT VIDEO OUTPUT jacks connected simultaneously? Select either connection and make the appropriate setting.	14
	In case the menu of "Resolution Setting" disappears, make composite video (yellow) connection to restore it, then select the resolution which is compatible with the connected TV.	
No sound.	Is the audio cable disconnected?	
	Is the volume of the device turned down to the minimum level? Check the volume.	_
	Switch the audio input of the device connected by the audio cable to the input from the player.	_
	• Set "Digital Out SPDIF" or "Digital Out HDMI" properly in accordance with the connected device and connection procedure.	23
	Change the output resolution so that sound can be heard.	21
	<ul> <li>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 decode a DTS bitstream. If your AV receiver or processor does not support DTS, select PCM output on the player.</li> </ul>	23
Sounds of sub pictures such as commentaries and/or accessory sounds in menu operation cannot be heard.	"Digital Direct Audio Mode" > "On" is selected. To obtain these sounds, select "Off".	35
The disc does not play.	Make sure the disc type can be played with the player.	6
	Is the disc dirty or scratched? Check or clean the disc.	6
	• If the disc is a DVD-RW or DVD-R disc, finalize the disc before attempting to play it with the player.	_
	• If the disc includes parent lock support, playback is restricted while the parent lock of the player is set. Cancel Parental Lock or change the restriction level.	38
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.	14
Playback picture does not move smoothly.	"Resolution Setting" > "up to 1080p/24Hz" is selected. Change the setting.	21
The remote control does not work.	Are the batteries of the remote control dead? Replace the batteries.	
	Make sure the remote control is within range and pointed in the correct direction.	11
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.	_
After powering on, "Clock Set" menu appears.	The power supply to the player may have been disconnected. Reset the clock.	20

The DHS-8.8 contains a microcomputer for signal processing and control functions. In very rare situations, severe interference, noise from an external source, or static electricity may cause it to lockup. In the unlikely even that this should happen, unplug the power cord from the wall outlet, wait at least five seconds, and then plug it back in again.

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Busybox		freetype	Exhibit D
glibc	Exhibit B	Постуро	EXHIBIT B

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# **Specification**

Power requirement 47.0W

Power supply 120V AC 60Hz

Mass 4.3kg

External dimension

Width 435 x Height 73 x Depth 346mm  $(17-1/8" \times 2-7/8" \times 13-5/8")$ 

■ Signal system
Standard NTSC Color TV system

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

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

S VIDEO output

(Y) 1.0Vp-p (75 $\Omega$ ), Sync signal negative, (C) 0.286Vp-p (75 $\Omega$ ), 1 at rear Mini DIN4 Pin x 1 system

■ Component output (Y, PB, PR)

Y output (green), 1.0Vp-p (75 $\Omega$ ), Pin jack x 1 system PB, PR output (blue, red), 0.7Vp-p (75 $\Omega$ ), Pin jack x 1 system each Analog audio output

2.0V (rms),  $2.2k\Omega$  or below, pin jack (L, R) x 1 system 2.0V (rms),  $2.2k\Omega$  or below, pin jack x 6

■ Digital audio output (OPTICAL/COAXIAL jack)

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

■ ETHERNET port 100BASE-TX/10BASE-T x 1

EXTENSION port 2 systems

■ RS-232C connector DSUB 9 pin

■ HDMI output 19 pin, Type A connector

■ Remote control Wireless remote control (RC-716DV)

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

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

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# Memo



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