

marantz[®] Blu-ray / DVD Player BD5004



The serial number of this product may be found on the back of the unit. No others have the same serial number as yours. You should record the number and other vital information here and retain this book as a permanent record of your purchase to aid identification in case of theft.

Date of Purchase	
Dealer Purchase from	
Dealer Address	
Dealer Phone No.	
Model No.	
Serial No.	

Safety Precautions



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



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



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

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE. APPARATUS SHALL NOT BE EXPOSED TO DRIPPING OR SPLASHING AND NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL BE PLACED ON THE APPARATUS.

The important note and rating are located on the rear or bottom of the cabinet.

Laser Safety

CAUTION:

VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM.

LOCATION: INSIDE, NEAR THE DECK MECHANISM.

CAUTION:

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

THIS PRODUCT SHOULD NOT BE ADJUSTED OR REPAIRED BY ANYONE EXCEPT PROPERLY QUALIFIED SERVICE PERSONNEL.

IMPORTANT SAFETY INSTRUCTIONS

- 1. Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Do not use this apparatus near water.
- 6. Clean only with dry cloth.
- 7. Do not block any ventilation openings. Install in accordance with the manufacture's instructions.
- 8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11. Only use attachments/accessories specified by the manufacturer.
- 12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13. Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15. Batteries shall not be exposed to excessive heat such as sunshine, fire or the like.

FCC INFORMATION (For US customers)

1. PRODUCT

This product complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this product may not cause harmful interference, and (2) this product must accept any interference received, including interference that may cause undesired operation.

2. IMPORTANT NOTICE: DO NOT MODIFY THIS PRODUCT

This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modification not expressly approved by Marantz may void your authority, granted by the FCC, to use the product.

3. NOTE

This product 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 product 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 product does cause harmful interference to radio or television reception, which can be determined by turning the product 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 product into an outlet on a circuit different from that to which the receiver is connected.
- Consult the local retailer authorized to distribute this type of product or an experienced radio/TV technician for help.

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme

NMB-003 du Canada.

Disconnect the mains plug to shut off when find trouble or not in use. The mains plug shall remain readily operable.

CAUTION:

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

ATTENTION:

POUR ÉVITER LES CHOCS ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LAFICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

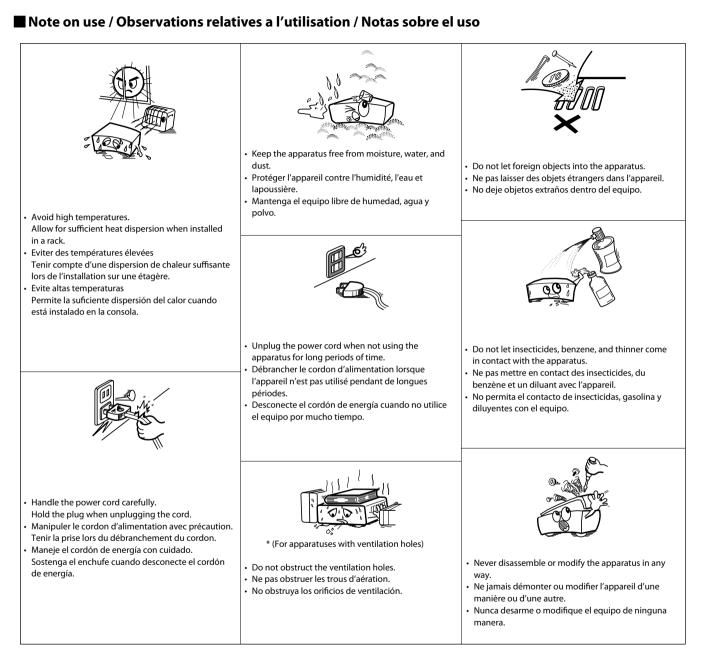
Do not place the unit on the furniture that is capable of being tilted by a child and an adult leaning, pulling, standing or climbing on it. A falling unit can cause serious injury or even death.





Copyrights / Droits d'auteur / Derechos de Autor

- It is prohibited by law to reproduce, broadcast, rent or play discs in public without the consent of the copyright holder.
- La reproduction, la diffusion, la location, le prêt ou la lecture publique de ces disques sont interdits sans le consentement du détenteur des droits d'auteur.
- De acuerdo con las leyes está prohibido reproducir, emitir, alquilar o interpretar discos en público sin la autorización del propietario de los derechos de autor.



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Setup

Introduction

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Important

Use only discs marked with logos listed on page 4.

Power Supply

The main power supply is engaged when the main plug is plugged in a 120V, 60Hz AC outlet. To operate the unit, press **[POWER ON]** or **<POWER ON/STANDBY>** to turn on the unit.

Warning

To avoid fire or electric shock, do not expose this unit to rain or moisture.

WARNING: LIVE PARTS INSIDE. DO NOT REMOVE ANY SCREWS.

Installation Location

For safety and optimum performance of this unit:

- Do not stand the unit up vertically. Install the unit in a horizontal and stable position. Do not place anything directly on top of the unit. Do not place the unit directly on top of the TV.
- Shield it from direct sunlight and keep it away from sources of intense heat. Avoid dusty or humid places. Avoid places with insufficient ventilation for proper heat dissipation. Do not block the ventilation holes on the sides of the unit. Avoid locations subject to strong vibration or strong magnetic fields.
- Be sure to remove a disc and unplug the AC cord from the outlet before carrying the unit.

Non-use periods - Turn off the unit when it is not in use. Unplug the unit from the household AC outlet if it is not to be used for a long time. Unplug the unit during lightning storms.

Please read this user guide carefully before using the unit, and keep it for future reference.

Cautions on Installation

Noise or disturbance of the picture may be generated if this unit or any other electronic equipment using microprocessors is used near a tuner or TV.

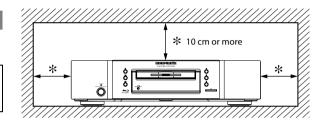
If this happens, take the following steps:

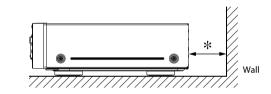
- Install this unit as far as possible from the tuner or TV.
- Set the antenna wires from the tuner or TV away from this unit's AC cord and input/output connection cords.

• Noise or disturbance tends to occur particularly when using indoor antennas or 300Ω /ohms feeder wires. We recommend using outdoor antennas and 75Ω /ohms coaxial cables.

Note

• For heat dispersal, do not install this equipment in a confined space such as a book case or similar unit.





Cautions on Handling

•Cautions on using mobile phones.

Using a mobile phone near this unit may result in noise. If so, move the mobile phone away from this unit when it is in use.

Before turning the power operation button on.
 Check once again that all connections are correct and that there are no problems with the connection cables. Always set the

are no problems with the connection cables. Always set the power operation button to the standby position before connecting and disconnecting connection cables.

• Sufficiently ventilate the place of installation.

If the unit is left in a room full of the smoke from cigarettes, etc., for long periods of time, the surface of the optical pickup could get dirty, in which case it will not be able to read the signals properly.

Dew Warning

Moisture condensation may occur inside the unit when it is moved from a cold place to a warm place, or after heating a cold room or under conditions of high humidity. Do not use the unit at least for 2 hours until its inside is dry.

Avoid the Hazards of Electrical Shock and Fire

- Do not handle the AC cord with wet hands.
- Do not pull on the AC cord when disconnecting it from AC wall outlet. Grasp it by the plug.
- If, by accident, water is spilled on this unit, unplug the AC cord immediately and take the unit to our authorized service center for servicing.

Before Using

Pay attention to the following before using this unit:

• Moving the unit.

To prevent short-circuits or damaged wires in the connection cables, always unplug the power supply cord and disconnect the connection cables between all other audio components when moving the unit.

• Store the user guide in a safe place.

After reading the user guide, store it in a safe place as it could come in handy in the future.

• Whenever < POWER ON/STANDBY> is in the STANDBY state, the unit is still connected to AC line voltage.

Please be sure to unplug the cord when you leave home for, say, a vacation.

•Note that the illustrations in these instructions may differ from the actual unit for explanation purposes.

About Copyright

Unauthorized copying, broadcasting, public performance and lending of discs are prohibited.

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

U. S. Patent No's, 6,836,549; 6,381,747; 7,050,698; 6,516,132 and 5,583,936.

Introduction

Features

• PIP (Picture in Picture) (BONUSVIEW) Setting

Some BD-Video have the PIP (picture-in-picture) function which enables you to display the secondary video in the primary video. You can call up the secondary video by pressing [MODE] whenever the scene contains the secondary video.

•Pure Direct

The sound quality of analog audio output is improved by stop output of video signals, etc.

•On-Screen Display

Information about the current operation can be displayed on a screen, allowing you to confirm the currently active functions (such as program playback) using the remote control.

Picture Control

Picture control adjusts the picture quality of the specific display.

•DRC (Dynamic Range Control)

Use this procedure to set the dynamic range of the output signals when playing back BD/DVD/AVCHD recorded in Dolby Digital/Dolby Digital Plus/Dolby TrueHD.

Plaving Back the Contents in SD Memory Card

- You can playback AVCHD, MP3, Windows Media[™] Audio, or JPEG stored in an SD Memory Card.
- You can store picture-in-picture commentary, subtitles or other extras for BD-ROM ver. 2 (Profile 2.0/ Profile 1.1) files in an SD Memory Card and playback with the BD-ROM.

•Playing Back AVCHD Files

This unit supports playback of AVCHD format files (new format for high definition video camcorders) recorded on disc/SD card. Your high definition personal archive is playable in HD quality.

• Plaving Back DivX[®] File

You can enjoy DivX[®] files which are recorded on BD-RE/-R, DVD-RW/-R or CD-RW/-R.

- Official DivX[®] Certified product
- Plays all versions of DivX[®] video (including DivX[®] 6/DivX[®] HD) with standard playback of DivX[®] media files.
- Playing Back an MP3 File

You can enjoy MP3 files which are recorded on BD-RE/-R, DVD-RW/-R, CD-RW/-R or SD Memory Card.

●Playing Back Windows Media[™] Audio File

You can enjoy Windows Media[™] Audio files which are recorded on BD-RE/-R, DVD-RW/-R, CD-RW/-R or SD Memory Card.

• Displaying a JPEG picture

Kodak Picture CD can be played back. Still images stored in JPEG format on BD-RE/-R, DVD-RW/-R, CD-RW/-R or SD Memory Card can also be played back.

• BD-J Application

• With some BD that supports Java applications (BD-J), you can eniov interactive function (e.g. game).

BD-Live

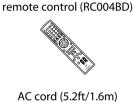
BD-Live (BD-ROM version 2 Profile 2.0) that allows interactive functions to be used when this unit is connected to the Internet in addition to the BONUSVIEW function. The various functions differ depending on the disc.

•x.v.Color

This unit supports playback of video contents on discs recorded with "x.v.Color" technology. To watch this video content with the "x.v.Color" space, a TV or other display device supporting both video image reproduction using "x.v.Color" standard and capability of manual switching of its color space setting is required. Please refer to the user quide of your display device for further information.

Supplied Accessories







warranty card



RCA video cable (3.2ft/1.0m)



About Discs

Disc Handling

 Handle the discs so that fingerprints and dust do not adhere to the surfaces of the discs.

Introduction

- Always store the disc in its protective case when it is not used.
- Note that discs with special shapes cannot be played on this product. Do not attempt to play back such discs, as they may damage the unit.

Cleaning Discs

• When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the center to out. Do not wipe in a circular motion. • Do not use solvents such as benzine, thinner, commercially available cleaners, detergent, abrasive cleaning agents or antistatic spray intended for analog records.



user quide

"AA" (R6) batteries x2

RCA audio cable (3.2ft/1.0m)

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Playback

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Connections

-

Introduction					Introduction	
Playable Discs and Files	Playable fil	es Logos	Media	Readable cards	Playable files / data	
This unit is compatible to play back the following disc To play back a BD or DVD, make sure that it meets the requirements for region codes and color systems as of page 5. You can play back discs that have the followin the disc. Other disc types are not guaranteed to play Playable discs	e described on AVCHD ng logos on back.		DVD-RW/-R SD Memory Card (including SDHC) miniSD Card microSD Card	SD Memory Card (8MB - 2GB) SDHC Memory Card (4GB - 8GB) miniSD Card (8MB - 2GB) microSD Card (8MB - 2GB)	AVCHD, MP3, Windows Media [™] Audio, JPEG, Picture-in-picture - commentary, subtitles or other _ extras for BD-ROM ver. 2 (Profile 2.0/ Profile 1.1)	Introduction
Blu-ray Disc - BD-Video - BD-RE (ver.2.1) (Recorded in BDMV format)	DivX [®]		BD-RE/-R DVD-RW/-R CD-RW/-R	 Note for SD Memory Car Do not remove the SD Memory standby mode while the cont may result in malfunction or 	ry Card or turn the unit to the tents of the card is in playback. It	Con
- BD-R (ver.1.1/1.2/1.3) (Recorded in BDMV format) (Unclosed discs may not be played back.)	MP3 Windows Mec	lia™ Plays Windows	BD-RE/-R DVD-RW/-R CD-RW/-R SD Memory Card		Cards in their cases when you are the card.	Connections
VIDEO	Audio	Media™	(including SDHC) miniSD Card microSD Card	metals.Do not attach additional labeDo not remove the label of th	ne SD Memory Cards.	
DVD-RW(Finalized discs only)Image: Compare the second secon	Note • ABOUT DIV DivX, Inc. TI	nis is an official Divx Certi	video format created by fied device that plays	 This unit supports SD Memory system, and SDHC Memory C This unit may not read the SE computer. If that is the case, Cards on this unit and try aga This unit does not support m 	ard with FAT32 file system. Memory Cards formatted on please reformat the SD Memory in.	Playback
	software to		nto DivX video. nis DivX Certified [®] device	Memory Card. • For miniSD Card and microSE	O Card adapter is necessary.	Fu
CD-RW	(VOD) cont Rewritable wod.divx.co	gistered in order to play D ent. To generate the regis ection in the device setu m with this code to comp	stration code, locate the o menu. Go to olete the registration	miniSD Card Adapter miniSD Card	microSD Card Adapter microSD Card	Function Se
CD-R	Becordable Motion Cor	l learn more about DivX \ ining the DivX [®] files with npensation) playback fea	the DivX [®] GMC (Global ture, which is DivX [®]	 Portions of this product are p and are provided under licen 	orotected under copyright law se by ARIS/SOLANA/4C.	Setup
Kodak Picture CD	• This unit ca Windows N	tal function, cannot be p nnot play back the disc c ledia™ Digital Rights Man	ontents protected by agement (DRM).			g
DTS-CD (5.1 Music Disc) -		ndows Media™ Audio) is a by Microsoft® in the Unite				Others



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Introduction

Unplayable Discs	Region
The following discs will not play back on this unit. • BD-RE (ver.1.0) (BD-disc with cartridge) • BD-RE (ver.2.1) (Recorded in BDAV format) • BD-R (ver.1.1/1.2/1.3) (Recorded in BDAV format) • BD that contains AVCHD files • Multi-session burn BD/DVD with DivX [®] files • Multi-session burn BD-RE/-R with MP3/Windows Media [™] Audio/ JPEG files • BD/DVD hybrid disc (e.g. Total Hi Def hybrid disc) • BD-Video that does not include "A" on its region code. • DVD-Video that does not include either "1" nor "ALL" on its region code	This unit ha region A ar play back E regions. Lo or DVD-Vic on your BD disc in this globe refer DVD-Video back on th
 region code. DVD-ROM/RAM (For DVD-ROM discs, data files in DivX[®] 3.11, 4.x, 5.x and 6.x can be played) 	Structur
 DVD-RW/-R recorded in non-compatible recording format CD-ROM (Data files in DivX[®] 3.11, 4.x, 5.x and 6.x can be played) CDV (Only the audio part can be played) CD-G (Only the audio signals can be output) Compact Disc-Interactive (CD-I) Video Single Disc (VSD) Video CD, Super Video CD Super audio CD (Only the sound on the CD layer can be heard. The sound on the high-density super audio CD layer cannot be heard.) DVD-Audio HD DVD Disc with recording area less than 55mm in diameter Unauthorized disc (Pirated disc) 	The conter further sub cha Audio CDs tra
Unfinalized disc	Data discs MP3/Wind the folders
Color Systems	
BD and DVD are recorded in different color systems throughout the world. The most common color system is NTSC (which is used	file (1

the world. The most common color system is NTSC (which is used primarily in the United States and Canada).

This unit uses NTSC, so BD or DVD you play back must be recorded in the NTSC system. You cannot play back BD or DVD recorded in other color systems.

Codes

has been designed to play back BD with and DVD-Video with region 1. You cannot BD or DVD-Video that are labeled for other ook for the symbols on the right on your BD ideo. If these region symbols do not appear DVD-Video D or DVD-Video, you cannot play back the s unit. The letter or number inside the ers to region of the world. A BD or eo labeled for a specific region can only play he unit with the same region code.

re of Disc/SD Memory Card Contents

ents of disc are generally divided into titles. Titles may be bdivided into chapters.

	BD/DVD/AVCHD			
👞 title	e1	•	title 2	
chapter 1	chapter 2	chapter 1	chapter 2	chapter 3

s are divided into tracks.

		Audio CD			1
track 1	track 2	track 3	track 4	track 5	
\sim LM	~ נתו	\sim rut l	ענגער~	\sim LIN \sim	

s or SD Memory Cards containing DivX[®] (in discs only)/ dows Media™ Audio/JPEG are divided into folders, and rs are subdivided into files.

, ₄ D	DivX [®] /MP3/Windows Media [™] Audio/JPEG				
👞 folder (group) 1 🔔	↓ fc	older (group)	2	
file (track) 1	file (track) 2	file (track) 3	file (track) 4	file (track) 5	
תוז \sim	~ זעו	\sim $111 $	\sim t ${ m ctr}$	\sim LIII \sim	
673	S.,			<u>S</u>	

Symbols Used in this User Guide

BD-Video

(((**1**))

<u>11</u>

To specify for which media type each function is, we put the following symbols at the beginning of each item to operate.

Symbol	Description
BD-V	Description refers to BD-Video and BD-RE (ver. 2.1)/ BD-R (ver.1.1/1.2/1.3) recorded in BDMV format
DVD-V	Description refers to DVD-Video and DVD-RW/-R recorded in video mode
DVD-VR	Description refers to DVD-RW/-R recorded in VR mode
CD	Description refers to audio CD and DTS-CD
AVCHD	Description refers to DVD-RW/-R and SD Card with AVCHD files
DivX®	Description refers to BD-RE/-R, DVD-RW/-R and CD-RW/-R with $\text{DivX}^{\circledast}$ files
MP3	Description refers to BD-RE/-R, DVD-RW/-R, CD-RW/-R and SD Memory Card with MP3 files
WMA	Description refers to BD-RE/-R, DVD-RW/-R, CD-RW/-R and SD Memory Card with Windows Media™ Audio files
JPEG	Description refers to BD-RE/-R, DVD-RW/-R, CD-RW/-R and SD Memory Card with JPEG files

If you do not find any of the symbols listed above under the function heading, the operation is applicable to all media.

About the button names in this explanation

- <>: Buttons on the main unit
- []: Buttons on the remote control

Button name only:

Buttons on the main unit and remote control

Introduction

Connections

Introduction

Introduction

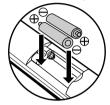
About the Remote Control

Loading the Batteries

① Open the battery compartment cover.



(2) Insert two "AA" (R6) batteries, with each one oriented correctly.



③ Close the cover.

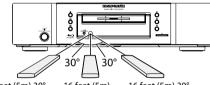
Cautions on Batteries

- Use "AA" (R6) batteries in this remote control.
- Replace the batteries with new ones approximately once a year, though this depends on the frequency with which the remote control is used.
- If the remote control does not operate within a close proximity of the main unit, replace the batteries with new ones, even if less than a year has passed.
- The included batteries serve only for verifying operation. Replace them with new batteries as soon as possible.
- When inserting the batteries, be careful to do so in the proper direction, following the ⊕ and ⊖ marks in the remote control's battery compartment.
- To prevent damage or battery fluid leakage:
- Do not mix a new battery with an old one.
- Do not mix two different types of batteries such as alkaline and manganese.
- Do not short-circuit, disassemble, heat or dispose of batteries in flames.
- Remove the batteries when not planning to use the remote control for a long period of time.
- If the batteries should leak, carefully wipe off the fluid from the inside of the battery compartment, then insert new batteries.

Using a Remote Control

Keep in mind the following when using the remote control:

- Make sure that there are no obstacles between the remote control and infrared sensor window on the unit.
- Remote operation may become unreliable if strong sunlight or fluorescent light is shining on infrared sensor window of the unit.
- Remote control for different devices can interfere with each other. Avoid using remote control for other equipment located close to the unit.
- Replace the batteries when you notice a fall off in the operating range of the remote control.
- The maximum operable ranges from the unit are as follows.
- Line of sight: approx. 16 feet (5m)
- Either side of the center: approx. 16 feet (5m) within 30°



16 feet (5m) 30° 16 feet (5m) 16 feet (5m) 30°

Changing the Signal Code of a Remote Control

To avoid the other Marantz's BD players responding the remote signal of this unit, you can change the signal code of the remote control. If the signal code of the remote control does not match to the signal code of the unit, you cannot control the unit with the remote control.

Change the signal code of the unit

- 1) In stop mode, press [SETUP].
- 2) Use $[\triangleleft / \triangleright]$ to select \overline{m} , then press [ENTER].
- 3) Use $[\triangleleft / \triangleright]$ to select **m**, then press [ENTER].
- 4) Use $[\Delta / \nabla]$ to select "Remote Control Setting".

5) Press [ENTER] to select "BD1" or "BD2".



6) Press [SETUP] to exit.

• At this point the new signal code of the unit is effective. Please change the signal code of the remote control to match to the signal code of the unit with following procedure.

Change the signal code of the remote control

Set to "BD1":

Press and hold down both **and [1]** on the remote control for at least five seconds.

Set to "BD2":

Press and hold down both ■ and [2] on the remote control for at least five seconds.

- If the signal code does not match, the signal code of the remote control will be displayed on the front panel display.
- The default setting and the setting after you change the batteries is "BD1".
- If the code setting on the unit is "BD1", and the setting on the remote control is "BD2", "BD2" is shown on the front panel display.

 Button illustrations used in this manual for operation explanation are for the Remote Control Unit.
 You can operate the unit using the button of the same name on the front panel of the unit.

Others



Introduction

Front Panel

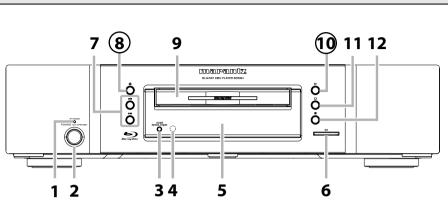
Part Names and Functions

Playback

Function

Setup

Others



The unit can also be turned on by pressing the buttons with circled numbers.

- 1. STANDBY indicator
 - This indicator lights up in red in standby mode and turns off when the power is on.

2. POWER ON/STANDBY button Press to turn on the unit, or to turn the unit to the standby mode. (In standby mode, this unit still consumes small amount of power. To completely shut down the unit, you must unplug the AC cord.)

3. HDMI RESOLUTION button

Press to set the HDMI jack's video signal output mode.

4. Infrared sensor window

Receives signals from your remote control so that you can control the unit from a distance.

5. Display

Refer to "Front Panel Display" on page 9.

6. SD card slot

Insert an SD Memory Card, and play back the contents in it.

7. |◀◀ / ▶▶| (SKIP DOWN/UP) button

Press to skip down/up titles/chapters/tracks/ files.

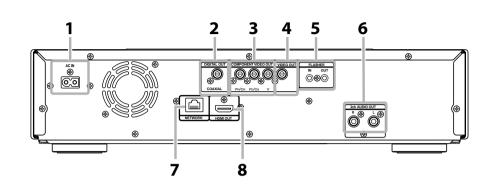
8. 🔺 (OPEN/CLOSE) button

Press to open or close the disc tray. 9. Disc tray

Place a disc when opening the disc tray. 10. ► (PLAY) button

- Press to start or resume playback.
- **11. ■ (STOP) button** Press to stop playback.
- 12. **II** (STILL/PAUSE) button

Press to pause playback.



1. AC IN Terminal

Rear Panel

Use to connect the AC cord to supply the power.

- 2. DIGITAL OUT (COAXIAL) jack Use digital audio coaxial cable to connect to an AV receiver, Dolby Digital decoder or other device with a digital audio coaxial input jack.
- 3. COMPONENT VIDEO OUT jacks

Use a component video cable to connect to a display device with component input jacks.

4. VIDEO OUT jack

Use an RCA video cable to connect to a TV monitor, AV receiver or other device.

5. FLASHER IN / OUT jacks

This Input terminal is equipped for controlling this unit by the external Infrared (IR) control device. Connect the IR control signal from a Keypad, IR repeater, etc. The Output terminal repeats the IR signal which was fed into the IR Flasher Input terminal for another device.

6. 2ch AUDIO OUT jacks

Use an RCA audio cable to connect these jacks to the 2-channel audio input jacks of your amplifier with 2- channel input terminals.

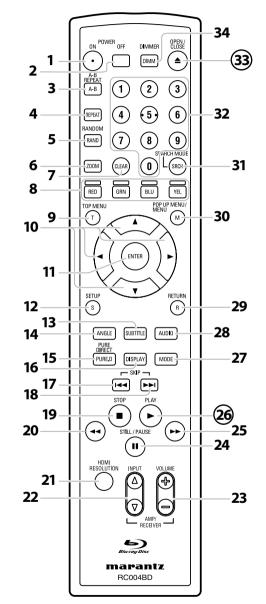
- **7. NETWORK Terminal** Use to connect a telecommunications equipment with LAN cable.
- 8. HDMI OUT jack

Use an HDMI cable to connect to a display with an HDMI input jack.

Note

• Do not touch the inner pins of the jacks on the rear panel. Electrostatic discharge may cause permanent damage to the unit.

Remote Control



The unit can also be turned on by pressing the buttons with circled numbers.

1. POWER ON button

- Press to turn the unit on.
- **2.** POWER OFF buttonPress to turn the unit to standby mode.
- A-B REPEAT button
 Press to mark a segment between A and B for A-B repeat plavback.
- 4. REPEAT button

• Press to select the repeat mode.

5. RANDOM button

• Press to display the random playback screen for shuffling the playback order of tracks/files.

6. ZOOM button

• During playback, press to enlarge the picture on the screen.

7. CLEAR button

 Press to clear the information once entered, to clear the marker settings, or to cancel the programming for CD, etc.

8. RED/GRN/BLU/YEL button

Press to select item on some BD menus.
 When file list (thumbhail list is shown, pre-

• When file list / thumbnail list is shown, press to switch between pages.

9. TOP MENU button

• Press to display the top menu.

10. Cursor $\triangle / \nabla / \triangleleft / \triangleright$ buttons

Press to select items or settings.

- 11. ENTER button
 - Press to confirm or select menu items.
- 12. SETUP button
 - Press to display the setup menu.

13. SUBTITLE button

Press to display the subtitle menu.

14. ANGLE button

- Press to access various camera angles on the disc.
- Press to rotate the JPEG/Kodak Picture images clockwise by 90 degrees.

15. PURE DIRECT button

• Press to stop output of video signals, etc., and output only the analog audio signals to achieve high quality sound from analog audio outputs.

16. DISPLAY button

• Press to display the On-Screen display menu.

17. SKIP

• During playback, press to return to the beginning of the current title, chapter, track or file.

18. SKIP ►► | button

• During playback, press to skip the next chapter, track or file.

19. STOP 🔳 button

- Press to stop playback.
- Press to exit from the title menu.

20. REW 🔫 button

• During playback, press to fast reverse the playback.

21. HDMI RESOLUTION button

• Press to set the HDMI jack's video signal output mode.

22. INPUT \triangle / ∇ buttons

• These buttons are used to switch the input when using one of the supported Marantz amplifiers. However, this function may not work with some of the older models.

23. VOLUME +/- buttons

• This button can be used to adjust the volume of devices compatible with Marantz amplifiers that come with a remote controller.

24. STILL/PAUSE II button

- Press to pause playback.
- When playback is in pause, press repeatedly to forward the playback step by step.

25. FFW ►► button

- During playback, press to fast forward the playback.
- When playback is in pause, press to slow forward the playback.

26. PLAY ► button

• Press to start playback or resume playback.

27. MODE button

- During playback, press to display the picture adjustment menu, and dialog speed.
- During the JPEG playback, press to display menus for changing the visual effect for switching the image or changing the size of the image.
- In stop mode with BD inserted, press to display a menu for setting the BD audio mode.
- During playback of BD, DVD, audio CD, AVCHD, DivX[®], MP3 or Windows Media[™] Audio, press to display a menu for setting the virtual surround.
- During BD playback, press to turn the picture-in-picture feature on or off (only applicable to BD-Video which supports the PIP (BONUSVIEW) function).
- In stop mode with audio CD, or disc with MP3, Windows Media[™] Audio, JPEG files inserted, press to display menus for program and random playback.

28. AUDIO button

Press to display the audio menu.

29. RETURN button

• Press to return to the previously displayed menu screen.

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Introduction 30. POP UP MENU / MENU button

- 0. POP OP MENO / MENO DULLON
- Press to display the pop-up menu/disc menu/file list.
- Press to change "Original" and "Playlist" on the TV screen.

31. SEARCH MODE button

• Press to display the search menu.

32. Number buttons

• Press to enter the title/chapter/track/file numbers.

33. OPEN/CLOSE 📥 button

• Press to open or close the disc tray.

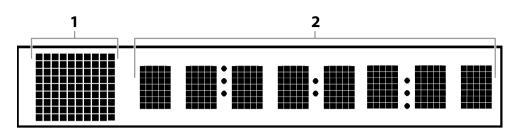
34. DIMMER button

• Press to adjust the brightness of the front panel display.

Note

- [ZOOM] is not available for BD and AVCHD.
- **[RANDOM]** is not available for BD, DVD, AVCHD and DivX[®].

Front Panel Display



* Brightness of the display can be adjusted. Refer to "Panel Display" in "Function Setup" on page 37.

1) Displays playback status icon. Refer to the table below.

2) Displays various kinds of information such as title number, elapsed time, repeat mode, etc.

Playback status icon		Mode	
Disc	SD Memory Card	Mode	
₽-	\mathbf{E}	Playback is in progress	
ii		Stop mode	
		Pause mode	
j.		Fast forward mode	
· ŧ ŧ		Fast reverse mode	
₿₽	(for AVCHD only)	Slow forward mode	
	G 🗌	Appears while repeat function is set	

Adjusting the Brightness of the Display

You can adjust the brightness of the display by the pressing **[DIMMER]** repeatedly. The brightness changes as bright \rightarrow dimmer \rightarrow auto each time you press **[DIMMER]**. If you select auto, the display gets dimmer during playback.

Note

• [DIMMER] is not available when the setup menu is displayed.

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Examples of Displays during Operation

Display	Description
MARANTZ	Power on
-0FF-	Standby mode
OPEN	Tray open
CLOSE	Tray is closing
LOADING	Loading the disc
NO DISC	No disc inserted
	This unit cannot read the disc or SD Memory Card inserted.
STOP	Stop mode
480i	HDMI output mode (480i) is selected.
480P	HDMI output mode (480p) is selected.
720P	HDMI output mode (720p) is selected.
1080i	HDMI output mode (1080i) is selected.
1080P	HDMI output mode (1080p) is selected.
1080P24	HDMI output mode (1080p24 frame) is selected.
Source D	HDMI output mode (Source Direct) is selected.
Normal	Pure direct mode is set to pure direct off.
VideoOff	Pure direct mode is set to video signal off.
Disp.Off	Pure direct mode is set to front panel display off.
All Off	Pure direct mode is set to video signal and front panel display off.
HDCP NOK	Appears when the connected display device or other device does not support HDCP.

Note

• When playing back the disc that contains more than 100 titles, display of the chapter and time on the front panel display will be moved a few dots to the right.

Connections

Connect the BD5004 as follows before using. Make connections according to the equipment you are connecting.

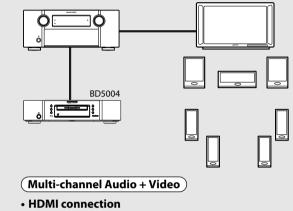
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Some BD5004 settings may be necessary depending on the connection method. Check each connection item for more information.

5

- Home theater playback
 - Playing back using multi-channel system



"Connecting to a Display Device and an Amplifier/ Receiver with HDMI Cable" (page 12)

Multi-channel Audio

Digital audio connection

"Digital Connection to an AV Amplifier with Built-in Decoder" (page 14)

(Video)

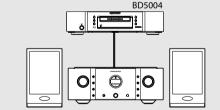
 Connecting to a TV : page 12 (VIDEO OUT/COMPONENT VIDEO OUT)

- Playing back with a direct connection to a TV
- Connecting to a Display Device with : page 12 HDMI Cable

— (Audio)

- Connecting to a TV (2ch AUDIO OUT) : page 12
- Connecting to a TV : page 12 (VIDEO OUT/COMPONENT VIDEO OUT)

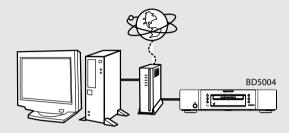




2ch audio connection

"Connection to a Device with 2-channels of Analog Audio Inputs" (page 15)





- NETWORK connection "Network Connection with LAN" (page 15)
- Connecting the AC cord : page 16

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Connecting to a TV

Make one of the following connections, depending on the capabilities of your existing device.

Method 2

CΠ

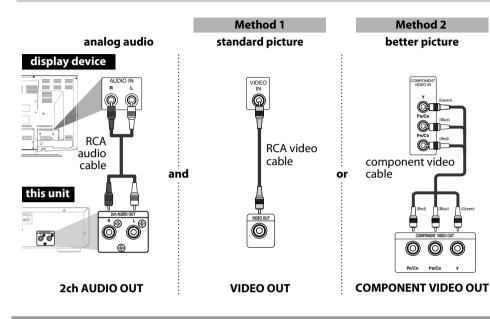
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CI

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()

PR/CR Рв/Св



Supplied cables used in this connection are as follows:

- RCA audio cable (L/R) x 1
- RCA video cable x 1
- Please purchase the rest of the necessary cables at your local store.

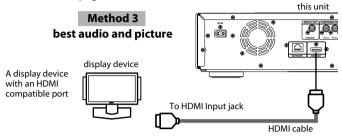
Note

- Connect this unit directly to the TV. If the RCA audio/video cables are connected to a VCR, pictures may be distorted due to the copy protection system.
- If the display device to which the player is to be connected is compatible with progressive scan video, connect to the component video input.
- This unit's COMPONENT VIDEO OUT jacks are compatible for 480i/480p/720p/1080i video resolution. If the connected display device is not compatible for 480p/720p/1080i video resolution, set "Component Output" to "480i".
- If the picture is not output properly to the display device because of the "HDMI Video Resolution" or "Component Output" setting, press and hold ► on the front panel for more than 5 seconds. The "HDMI Video Resolution" setting will be reset to the default automatically.
- If you are using HDMI connection and set "HDMI Video Resolution" to "Source Direct", "1080p" or "1080p24", picture may not be output properly to the display device. In that case, set "HDMI Video Resolution" to "480i", "480p", "720p" or "1080i".

Connecting to a Display Device with HDMI Cable

Connecting this unit to device with an HDMI jack using an HDMI cable enables digital transfer of both digital video signals and multi-channel audio signals.

After making the connection, please make HDMI settings on setup menu according to your display device. Refer to pages 31-33.



Cables not included.

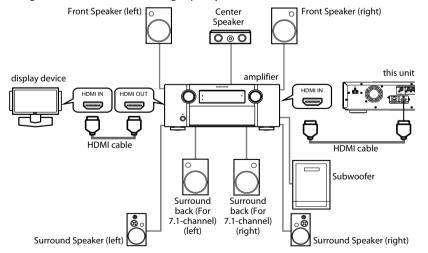
Please purchase the necessary cables at your local store.

Use a cable on which the HDMI logo is indicated (a certified HDMI product) for connection to the HDMI connector.

Normal playback may not be possible when using a cable other than one on which the HDMI logo is indicated (a non-HDMI-certified product).

Connecting to a Display Device and an Amplifier/Receiver with HDMI Cable

Connecting this unit to display device and an amplifier/receiver with an HDMI jack using HDMI cables enables digital surround sound with high quality video.



Cables not included.

Please purchase the necessary cables at your local store.



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HDMI Output Mode and Actual Output Signals

Press **[HDMI RESOLUTION]** to select the HDMI output mode. HDMI video resolution changes as following.

Front Panel Display	HDMI Video Resolution	
480i	480 Interlaced 🔶	
Press [HDMI RES		
480P	480 Progressive	
Press [HDMI RES	SOLUTION] I	
720P	720 Progressive	
Press [HDMI RES	SOLUTION] I	
1080i	1080 Interlaced	
Press [HDMI RES	SOLUTION] ↓	
1080P	1080 Progressive	
Press [HDMI RES	SOLUTION] I	
1080P24	1080 Progressive 24 frame	
Press [HDMI RES	SOLUTION] ↓	
Source D	Source Direct	
Press [HDMI RE		

Note

- You can change the HDMI output mode with [HDMI RESOLUTION] during playback as well. (This is not available during BD/AVCHD playback.)
- Video and audio signals may be distorted temporarily when switching to/from the HDMI output mode.
- You can also change the HDMI output mode from "HDMI Video Resolution" in the "Video" menu on the setup menu. Refer to page 32.
- In order to get natural and high quality film reproduction of 24-frame film material, use HDMI cable (High Speed HDMI cable is recommended) and select "1080p24", "Auto" or "Source Direct" if the connected display device is compatible with 1080p24 frame input.
- For AVCHD and DivX[®], 24-frame film material will be output as 60 frame, even if the connected device is compatible with 1080p24 frame input and "HDMI Video Resolution" is set to "1080p24", "Auto" or "Source Direct".
- When "HDMI Video Resolution" is set to "1080p", "1080p24" or "Source Direct", the "Component Output" will be set to "480i" automatically.
- If the video is not properly from HDMI OUT jack after you set the "HDMI Video Resolution" setting, change the HDMI video resolution to the compatible resolution by pressing
- **[HDMI RESOLUTION]** or press and hold ► on the front panel for more than 5 seconds to reset the setting.
- "HDMI Deep Color" is available only when the display device is connected by HDMI cable and supports HDMI Deep Color.
- For "Auto" in "HDMI Deep Color", using the High Speed HDMI cable is recommended.

Audio Setting

When using HDMI connections make the "HDMI Audio Out" settings in the "Audio" menu on the setup menu according to the specifications of the device or monitor to be connected.

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Device to be connected	"HDMI Audio Out" setting	Output HDMI audio signal
Device compatible with DTS, DTS-HD, Dolby Digital, Dolby Digital Plus or Dolby TrueHD decoding	HDMI Multi(Normal)	Dolby Digital, Dolby Digital Plus, Dolby TrueHD, DTS, or DTS-HD bitstream are output from HDMI OUT. Make the speaker settings on the connected AV amplifier, etc.
Device compatible with 3 or more channels of audio inputs (not DTS, DTS-HD, Dolby Digital, Dolby Digital Plus or Dolby TrueHD compatible)	HDMI Multi(LPCM)	Multi-channel audio signals are output from the HDMI OUT. Make the speaker settings with the speaker setting items appear after you select "HDMI Multi(LPCM)". Refer to page 33.
Device compatible with 2-channel audio input or device not compatible with audio input	HDMI 2ch	Down-mixed 2-channel audio signals are output from HDMI OUT.
HDMI connection to a display device, and digital audio connection (coaxial) to an AV amplifier.	Audio Mute	HDMI audio will be muted, and Dolby Digital/DTS bitstream or PCM will be output from DIGITAL OUT depending on the "Digital Out" setting. Refer to page 14.

Audio signals output from HDMI OUT

Disc type	Audio recording	"HDMI Audio Out" setting		
	format	HDMI Multi(Normal)	HDMI Multi(LPCM)	HDMI 2ch
	Dolby Digital	Dolby Digital	Multi PCM	2ch Downmix PCM
	Dolby Digital Plus	Dolby Digital Plus*1	Multi PCM*4	2ch Downmix PCM*4
BD-Video	Dolby TrueHD	Dolby TrueHD*2	Multi PCM* ⁵	2ch Downmix PCM*5
DD-Video	DTS	DTS	Multi PCM	2ch Downmix PCM
	DTS-HD	DTS-HD* ³	Multi PCM*6	2ch Downmix PCM*6
	РСМ	Multi PCM	Multi PCM	2ch Downmix PCM
	Dolby Digital	Dolby Digital	Multi PCM	2ch Downmix PCM
DVD-Video	DTS	DTS	Multi PCM	2ch Downmix PCM
	РСМ	2ch PCM	2ch PCM	2ch PCM
DTS-CD		DTS	Multi PCM	2ch Downmix PCM
AVCHD	Dolby Digital	Dolby Digital	Multi PCM	2ch Downmix PCM
AVCHU	PCM	Multi PCM	Multi PCM	2ch Downmix PCM
DivX®	Dolby Digital	Dolby Digital	Multi PCM	2ch Downmix PCM
DIVX	MP3/ MP2	2ch PCM	2ch PCM	2ch PCM
audio CD/ M Media™ Aud	P3/ Windows io	2ch PCM	2ch PCM	2ch PCM

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- If "BD Audio Mode" is set to "HD Audio Output" or the BD title does not have secondary or interactive audio, the audio will be output as shown in the table.
- If the "BD Audio Mode" is set to "Mix Audio Output" and the BD title has secondary or interactive audio, the audio will be output as follows:
- *1 Dolby Digital or Multi PCM (Only the independent substream is decoded.)
- *2 Dolby Digital or Multi PCM (Only the Dolby Digital substream is decoded.)
- *³ DTS or Multi PCM (Only the core substream is decoded.)
- *4 As shown in the table (Only the independent substream is decoded.)
- *5 As shown in the table (Only the Dolby Digital substream is decoded.)
- *⁶ As shown in the table (Only the core substream is decoded.)
- If the connected device is not compatible with the HDMI BITSTREAM, audio will be output as Multi PCM or 2ch Downmix PCM depending on the capability of the connected device, even if you select "HDMI Multi(Normal)" in "HDMI Audio Out" setting. Refer to page 33.

Copyright protection system

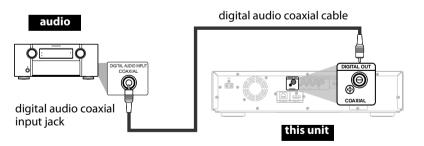
To play back the digital video images of a BD/DVD via an HDMI connection, it is necessary that both the unit and the display device (or an AV amplifier) support a copyright protection system called HDCP (high-bandwidth digital content protection system). HDCP is copy protection technology that comprises data encryption and authentication of the connected AV device. This unit supports HDCP. Please read the user guide of your display device (or AV amplifier) for more information.

* HDMI: High-Definition Multimedia Interface

Note

- When using HDCP-incompatible display device, the image will not be viewed properly.
- The audio signals from the HDMI jack (including the sampling frequency, the number of channels and bit length) maybe limited by the device that is connected.
- Among the monitors that support HDMI, some do not support audio output (e.g. projectors). In connections with device such as this unit, audio signals are not output from the HDMI output jack.





Audio signals output from DIGITAL OUT (COAXIAL)

When both HDMI and DIGITAL OUT is connected to other devices, the audio signals currently output from the HDMI OUT will be output from the DIGITAL OUT jack as well, except that HDMI 2ch signal will be output from HDMI OUT jack, when connected device does not support Dolby Digital and DTS. < When HDMI is not connected or "Audio Mute" is selected...>

When HDMI is not connected or the "Audio Mute" is selected in "HDMI Audio Out" setting, the audio signals output from DIGITAL OUT changes depending on the "Digital Out" setting. Refer to the following table.

To set "Digital Out", press [SETUP], then select "Quick" \rightarrow "HDMI Audio Out" \rightarrow "Audio Mute" or "Custom" \rightarrow "Audio" \rightarrow "HDMI Audio Out" \rightarrow "Audio Mute".

Disc type	Audio recording format	"Digital Ou	ut" setting
		Bitstream	LPCM
	Dolby Digital	Dolby Digital	2ch Downmix PCM
	Dolby Digital Plus	Dolby Digital	2ch Downmix PCM*1
BD-Video	Dolby TrueHD	Dolby Digital	2ch Downmix PCM*2
BD-Video	DTS	DTS	2ch Downmix PCM
	DTS-HD	DTS	2ch Downmix PCM* ³
	PCM	2ch Downmix PCM	2ch Downmix PCM
	Dolby Digital	Dolby Digital	2ch Downmix PCM
DVD-Video	DTS	DTS	2ch Downmix PCM
	РСМ	2ch PCM	2ch PCM
DTS-CD		DTS	2ch Downmix PCM
AVCHD	Dolby Digital	Dolby Digital	2ch Downmix PCM
Avend	РСМ	2ch Downmix PCM	2ch Downmix PCM
DivX®	Dolby Digital	Dolby Digital	2ch Downmix PCM
	MP3/ MP2	2ch PCM	2ch PCM
audio CD/ MP3/	Windows Media™ Audio	2ch PCM	2ch PCM

- This table applies only when HDMI is not connected or the "Audio Mute" is selected in "HDMI Audio Out" setting.
- If "BD Audio Mode" is set to "HD Audio Output" or the BD title does not have secondary or interactive audio, the audio will be output as shown in the table.
- If the "BD Audio Mode" is set to "Mix Audio Output" and the BD title has secondary or interactive audio, the audio will be output as follows:
- *1 Only the independent substream is decoded.
- *² Only the Dolby Digital substream is decoded.
- *³ Only the core substream is decoded.

Note

 In order to output PCM signal from DIGITAL OUT jack while outputting the HDMI audio signal, set "BD Audio Mode" to "Mix Audio Output" and set "HDMI Audio Out" to "HDMI Multi(LPCM)".

Cables not included.

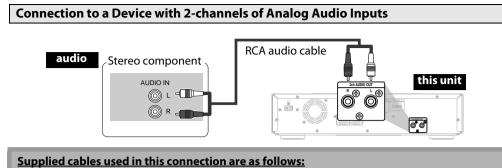
Please purchase the necessary cables at your local store.

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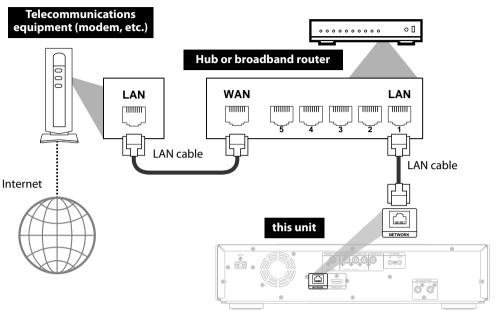
• RCA audio cable (L/R) x 1

Note

• When connecting to a 2-channel audio stereo device, use the 2ch AUDIO OUT jacks. For software recorded in multi-channel, analog signals that have been down-mixed into 2 channels are output.

Network Connection with LAN

• You can use a disc which offers BD-Live function by connecting the unit to the Internet. (For BD-Live information, please refer to page 29.)



No supplied cables are used in this connection:

Please purchase the necessary cables at your local store.

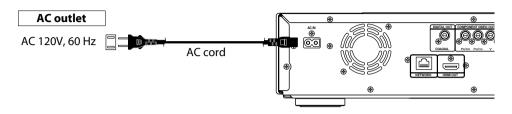
Note

- After connecting to the Internet, set up necessary network settings.
- Do not insert any cable other than a LAN cable to the NETWORK terminal to avoid damaging the unit.
- If your telecommunications equipment (modem, etc.) does not have broadband router functions, connect a broadband router.
- If your telecommunications equipment (modem, etc.) has broadband router functions but there is no vacant port, use a hub.
- For a broadband router, use a router which supports 10BASE-T/100BASE-TX.
- Do not connect your PC directly to the NETWORK terminal of this unit.

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Connecting the AC cord

After you made all necessary connections, connect the AC cord to the AC IN. Then connect the AC cord to the AC outlet.



Supplied cables used in this connection are as follows:

• AC cord x 1

Note

• Insert the plugs securely. Incomplete connections will result in the generation of noise.

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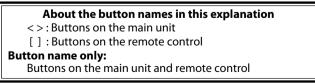
Direct Playback (BD/DVD-Video/AVCHD)	: page 17
Playing Back a VR mode DVD-RW/-R	: page 18
Playing Back an Audio CD or a Disc with	
DivX®/MP3/Windows Media™ Audio/JPEG	
File	: page 26
Kodak Picture CD	: page 28
SD Card playback	
SD Card playback	
SD Card playback Reading the SD Memory Card	: page 28
	: page 28
	: page 28
Reading the SD Memory Card	: page 28 : page 18

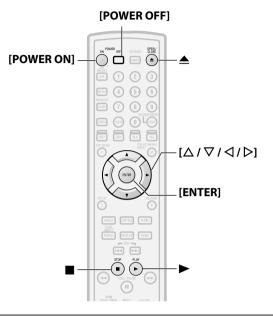
NOTE

- 🚫 may appear at the top-right on the screen when the operation is prohibited by the disc or this unit.
- During the playback of 2-layered disc, pictures may stop for a moment. This happens when the 1st layer switches to the 2nd layer. This is not a malfunction.
- The operation may vary when you play back with disc menu. Refer to the manual accompanying the disc for details.



<POWER ON/STANDBY>





Turning the Power On

Press [POWER ON] or <POWER ON/STANDBY> to turn on the unit.

The power indicator turns off when the power is on.

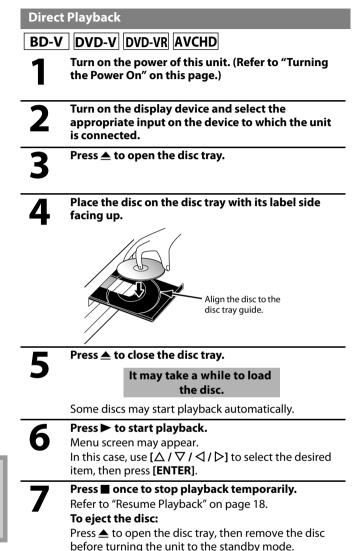
Turning the unit to the standby mode

Press [**POWER OFF**] or **<POWER ON/STANDBY>** to turn the unit to the standby mode.

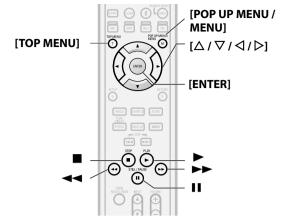
The power indicator lights red.

Note

• Power continues to be supplied to some of the circuitry even when the power is in the standby mode. When leaving home for long periods of time or when traveling, unplug the AC cord from the AC outlet.



Playback



Operations Using Disc Menu, Title Menu, and Popup Menu

BD-V DVD-V AVCHD

Many of BD and DVD disc contains Disc menu (DVD), Title menu (BD/DVD/AVCHD) or Pop-up menu (BD-Video) which describes the contents of the disc, or a disc menu, which guides you through the available functions in the disc. The contents of the menus may differ depending on the discs.

Disc menu (DVD)

- 1) Press [POP UP MENU / MENU].
 - The disc menu will appear.
- 2) Use $[\triangle / \nabla / \triangleleft / \triangleright]$ to select an item, then press [ENTER].

Title menu (BD/DVD/AVCHD)

- 1) Press [TOP MENU].
- 2) Use $[\triangle / \nabla / \triangleleft / \triangleright]$ to select an item, then press [ENTER].

Pop-up menu (BD-Video)

- This is a special feature available for some BD. When you press [**POP UP MENU** / **MENU**], a menu pops out on the screen while the contents still play back.
- 1) During BD playback, press [POP UP MENU / MENU].
- 2) Use $[\Delta / \nabla / \langle \rangle]$ to select an item, then press [ENTER].

Note

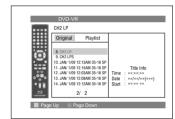
- If the feature is not available, O may appear on the TV screen.
- Contents of menus and corresponding menu operations may vary among discs. Refer to the manual accompanying the disc for details.
- BD/DVD/AVCHD menu varies depending on discs.

Playing Back a VR mode DVD-RW/-R

DVD-VR

When you are playing back a VR mode DVD-RW/-R, you can choose "Original" or "Playlist" if the disc contains a "Playlist".

- 1) In stop mode, press [POP UP MENU / MENU] to call up the DVD menu.
- 2) Use $[\triangleleft / \triangleright]$ to select "Original" or "Playlist".



3) Use $[\triangle / \nabla]$ to select desired title, then press \blacktriangleright or [ENTER].

Note

- "Original" is the title which is actually recorded on the disc.
- Playlist is edited version of the Original.
- If the disc does not contain Playlist, Playlist will not be displayed on the DVD menu.



1) During playback, press II. Playback will be paused.



Note

• For BD, DVD and DivX[®], set "Still Mode" to "Field" in the "Video" menu if pictures in the pause mode are blurred (refer to page 32).

11

Resume Playback

- During playback, press ■.
 - Resume message will appear on the screen.



<Example: BD>

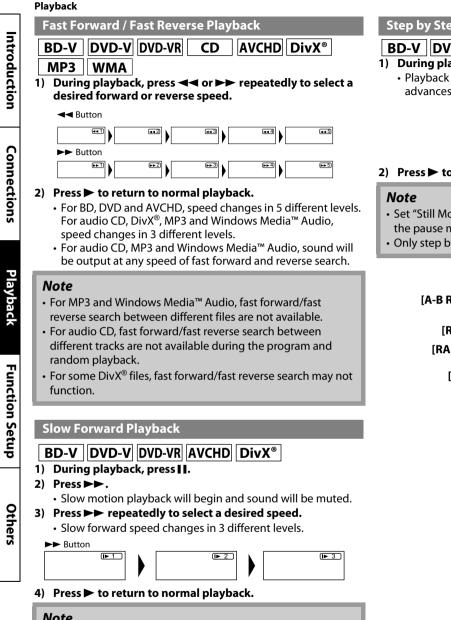
2) Press ►.

In a few seconds, playback will resume from the point at which it stopped last. To cancel the resume playback and start playing back the disc from the beginning, press again while the playback is stopped.

Note

- For MP3, Windows Media[™] Audio or JPEG, playback will resume from the beginning of the current file.
- The resume information will be saved even when the power is in standby mode.
- If you open the disc tray or press again in stop mode, the resume information will be cleared.
- Resume playback may not be available for the BD that supports Java applications (BD-J).
- In the "SD Card" mode, the resume information will be cleared when:
 - the SD Memory Card is removed.
- the unit is turned to the standby mode.

18 english



Note

• Set "Still Mode" to "Field" in the "Video" menu if pictures in the slow playback mode are blurred (refer to page 32).

Slow reverse is not available.

Step by Step Playback

BD-V DVD-V DVD-VR AVCHD DivX®

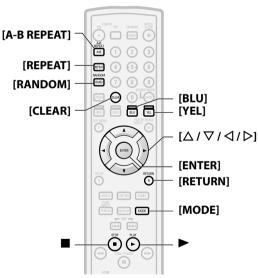
1) During playback, press

• Playback will pause and sound will be muted. The disc advances frame by frame each time II is pressed.



2) Press ► to return to normal playback.

- Set "Still Mode" to "Field" in the "Video" menu if pictures in the pause mode are blurred (refer to page 32).
- Only step by step forward is available.



Dialog Speed

BD-V DVD-V DVD-VR AVCHD

This function plays back approximately at 1.3 times of normal playback while keeping the sound output. This function is available only on discs recorded in the Dolby Digital format.

1) During playback, press [MODE] repeatedly until the dialog speed setting appears.

₩)>> Off

- 2) Press [ENTER] or $[\triangleleft/ \triangleright]$ to switch $\downarrow \downarrow$ (x1.3), or off. "Off": Plays back in normal speed.
 - " hh": Plays back approximately at 1.3 times of normal playback.
- 3) Press ► to return to normal playback.

Note

- Every time you press ■, the setting will be turned "Off".
- Subtitle can be viewed during this function.
- Picture adjustment, and audio language setting cannot be changed during this function.
- Virtual surround does not function during this function.
- This function may not work at some points on a disc.

 During this function, Muilti/2ch PCM will be output from HDMI output, 2ch PCM will be output from digital audio output, or 2ch analog sound will be output from analog audio out.



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Playback

Repeat Playback

Available repeat function may vary depending on the discs.

1) During playback, press [REPEAT] repeatedly until desired repeat mode appears on the screen.

The following repeat modes are available.

Chapter repeatBD-VDVD-VDVD-VRThe current chapter will be played back repeatedly.AVCHDAVCHDTitle repeatBD-VDVD-VDVD-VRThe current title will be played back repeatedly.AVCHDMP3Track repeatCDDivX®MP3The current track or file will be played back repeatedly.WMAJPEGGroup repeatDivX®MP3WMAThe current folder will be played back repeatedly.JPEGDivX®All repeatDVD-VRCDDivX®All titles, tracks or files in the media will be playedMP3WMAJPEGMP3WMAJPEG	Repeat mode	Available media
played back repeatedly.AVCHDTitle repeatBD-VDVD-VThe current title will be played back repeatedly.AVCHDTrack repeatCDDivX®MP3WMAJPEGDivX®All repeatDVD-VRAll titles, tracks or files in the media will be playedDVD-VRCDDivX®MP3WMAJPEGMP3WMA	Chapter repeat	BD-V DVD-V DVD-VR
The current title will be played back repeatedly.BD-VDVD-VDVD-VRTrack repeatAVCHDThe current track or file will be played back repeatedly.CDDivX®MP3Group repeatDivX®MP3WMAThe current folder will be played back repeatedly.DivX®MP3WMAJPEGDivX®MP3WMAAll repeatDVD-VRCDDivX®All titles, tracks or files in the media will be playedMP3WMAJPEG		
The current title will be played back repeatedly.AVCHDTrack repeatCDDivX®The current track or file will be played back repeatedly.WMAJPEGGroup repeatDivX®MP3WMAThe current folder will be played back repeatedly.JPEGDivX®All repeatDVD-VRCDDivX®All titles, tracks or files in the media will be playedMP3WMAJPEGMP3WMAJPEG	Title repeat	BD-V DVD-V DVD-VR
CDDIVXMPSThe current track or file will be played back repeatedly.WMAJPEGGroup repeatDivX®MP3WMAThe current folder will be played back repeatedly.JPEGJPEGAll repeatDVD-VRCDDivX®All titles, tracks or files in the media will be playedMP3WMAMP3WMAJPEG		
be played back repeatedly. Group repeat DivX® MP3 WMA The current folder will be played back repeatedly. JPEG JPEG All repeat DVD-VR CD DivX® All titles, tracks or files in the media will be played MP3 WMA JPEG	Track repeat	CD DivX [®] MP3
The current folder will be played back repeatedly. JPEG All repeat DVD-VR CD All titles, tracks or files in the media will be played MP3 WMA		WMA JPEG
The current folder will be played back repeatedly. JPEG All repeat DVD-VR CD All titles, tracks or files in the media will be played MP3 WMA	Group repeat	DivX [®] MP3 WMA
All titles, tracks or files in the media will be played DVD-VR CD DivX®		
All titles, tracks or files in the media will be played MP3 WMA JPEG	All repeat	
back repeatedly.		

A-B Repeat

BD-V DVD-V DVD-VR CD AVCHD DivX®

Desired section can be played back repeatedly.

- 1) Press [A-B REPEAT] at the desired starting point A.
- 2) Press [A-B REPEAT] at the desired ending point B.
- The repeat sequence begins.
- 3) Press [A-B REPEAT] to exit the sequence.

Note

- The chapter/title/track/group repeat setting will be cleared when moving to other chapter, title, track/file or folder.
- Repeat playback does not function during A-B repeat playback.
- Repeat chapter/title is not available with some scenes.
- A-B Repeat can only be set within the current title or current track/file.
- A-B Repeat is not available with some scenes.
- To cancel the A point which was set, press [CLEAR].
- A-B Repeat playback does not function during chapter, title, track, group or all repeat playback.
- For some DivX[®] files, A-B Repeat playback may not function.

Program Playback

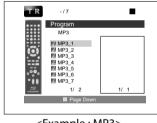
CD MP3 WMA JPEG

You can program the disc to play back in your desired order.

1) In stop mode, press [MODE].

• The program screen will appear.

2) Use $[\Delta / \nabla]$ to select a track/file, then press [ENTER].



<Example : MP3>

- For MP3, Windows Media[™] Audio, and JPEG, use [△ / ▽] to select a folder, then press [ENTER] first, and then use [△ / ▽] to select a track/file, then press [ENTER].
- Press [CLEAR] to erase the last track/file of the program.
- Select "All Clear" at the bottom of the list to erase all the tracks/files in the program.
- The programmed track/file is displayed in the right hand screen.
- If the entire program cannot be displayed on the screen, "▼" or "▲" appears.
- Use [◁/▷] to go back forward between the hierarchy of folders.

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• If eight or more tracks/files were set in a program, use [BLU]/ [YEL] to see all the tracks/files.

- 3) Press ► to start program playback.
 - Program playback will start.

Note

- During the program playback, press once to set the resume point, and then press ► to resume the program playback from where was pressed (audio CD) or from beginning of the file where was pressed (MP3, Windows Media[™] Audio, or JPEG).
- During the program playback, press twice to display the program screen. To go back to the normal program playback, press [RETURN] to exit from the program screen, then press
- Your program is still stored until either the disc tray is open or power is turned to the standby mode.
- Up to 99 tracks/files can be entered.
- To repeat the current track/file in the program, press

[**REPEAT**] repeatedly until " Track" appears during play back. To repeat the entire program press [**REPEAT**]

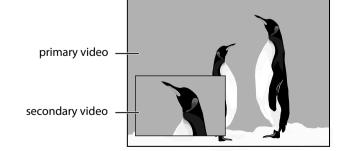
repeatedly until " All" appears during playback.

- Even if an inserted disc contains mixed MP3 and Windows Media[™] Audio files, program function allows 99 files in combination of MP3 and Windows Media[™] Audio files.
- The total number of selected tracks for the program playback will be displayed in the front panel display.
- Playback from a desired track/ file and random playback are not available during program playback.

PIP (Picture in Picture) (BONUSVIEW) Setting

BD-V

Some BD-Video have the PIP (picture-in-picture) function which enables you to display the secondary video in the primary video. You can call up the secondary video by pressing [MODE] repeatedly whenever the scene contains the secondary video.



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Plavback

Introduction

Connections

Function

Setup

Others

Playback

1) During playback, press [MODE] repeatedly until the PIP setting appears.

PIP information will appear.

- 2) Use [△ / ▽] to select the secondary video you want.
 The secondary video will be displayed and the secondary audio will be output.
- 3) Press [RETURN] or [MODE] to remove the PIP information.

Note

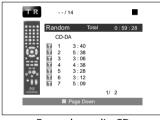
• The secondary audio will not be output when the secondary audio is set to "Off" or when "BD Audio Mode" is set to "HD Audio Output". Refer to "Setting the BD Audio Mode" on page 25.

Random Playback

CD MP3 WMA JPEG

This function shuffles the play back order of tracks/files.

1) In stop mode, press [RANDOM].



<Example: audio CD>

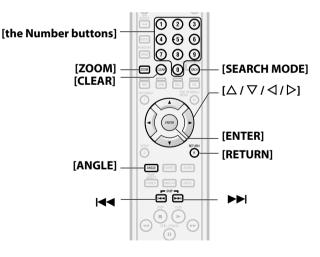
2) Press ► to start random playback.

Note

- During the random playback, press once to set the resume point, and then press ► to resume the random playback from where was pressed (audio CD) or from beginning of the file where was pressed (MP3, Windows Media[™] Audio, or JPEG).
- During the random playback, press twice to display the random playback screen. To cancel the random playback, press **[RANDOM]** when the random playback screen is displayed.
- To repeat the current track/file in the random selection, press [REPEAT] repeatedly until " Track" appears during

playback. To repeat the entire random selection press [REPEAT] repeatedly until "

- playback.
- You cannot go back to the previous track/file during random playback.
- For a disc containing mixed MP3 and Windows Media[™] Audio files, random playback of those files will be performed.

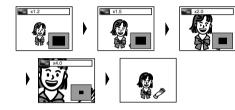


Zoom

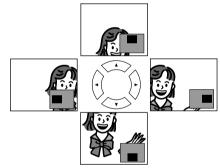
DVD-V DVD-VR DivX[®] JPEG

This function allows you to enlarge the video image and to pan through the zoomed image.

- 1) Press [ZOOM] during playback.
 - Playback will continue.
- 2) Press [ZOOM] repeatedly to select a desired zoom factor: x1.2, x1.5, x2.0, x4.0 or off.
 - "x4.0" zoom is not available for DivX[®] and JPEG.



Use [△ / ▽ / ⊲ / ▷] to move the zoomed picture across the screen.



4) Press [ZOOM] repeatedly to exit zoom mode.

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Plavback

Playback

Note

- For BD and AVCHD, zoom function is not available.
- Zoom function does not work while disc menu is shown.
- Navigation screen is not available on JPEG.
- You cannot pan through the zoomed picture on some JPEG files.
- For some DVD, "x4.0" zoom is not available.
- For DivX[®] files with small image, zoom function is not available.
- For DivX[®], depending on the size of the image, some zoom factor may not be available.
- For DivX[®], when changing the zoom factor or moving the zoom position, the screen may become black for a moment. This is not a malfunction.

Camera Angle

BD-V DVD-V

Some BD and DVD contain scenes which have been shot simultaneously from various angles. You can change the camera angle when $\stackrel{\infty}{\longrightarrow}$ appears on the screen.

1) Press [ANGLE] during playback.

- The selected angle will be displayed on the display bar at the top of the screen.
- 2) Use $[\Delta / \nabla]$ to select your desired angle.

Note

• If the "Angle Icon" setting is "Off" in the "Others" menu, a will not appear. Refer to page 37.

Search

■ Using |◄◀ / ▶▶|

1) Press ►► to skip to the next chapter, track or file during playback.

To go back to the previous chapter, track or file, press **I**

Note

• If title contains no chapters, I◄◄ / ►►I changes the title.

Using [SEARCH MODE]

By using the **[SEARCH MODE]**, you can select following search options.

Search mode	Available media
тт / сн Title / Chapter search	BD-V DVD-V DVD-VR AVCHD
TR Track Search	CD DivX [®] MP3 WMA JPEG
Time Search	BD-VDVD-VDVD-VRCDAVCHDDivX®
Marker Search	BD-V DVD-V DVD-VR AVCHD

Select a type of search by pressing [SEARCH MODE]. Every time you press [SEARCH MODE], type of search changes.

2) Enter the desired chapter, track, file, title number or time to search for using [the Number buttons].

Chapter, title, track or time search will start.

- e.g.
- For the disc with less than 10 titles, press the title number directly.
- For discs with 10 or more but less than 100 titles, to play back a single-digit title, press **[0]** first, then the title number (e.g. for title 3, press **[0]**, **[3]**). To play back a double-digit title, press the title number.
- For discs with 100 or more titles, to play back a single or a double-digit title, press [0] first, then the title number (e.g. for title 3, press [0], [0], [3] and for title 26, press [0], [2], [6]). To play back a triple-digit title, press the title number.

Note

- During program and random playback, search functions are not available except the search using |
- Time search function is available only in the same track, file or title.
- For some $\mathsf{DivX}^{\texttt{®}}$ files, time search may not function.
- For BD and AVCHD, chapter and time search are available only during playback.

Marker search

This feature allows you to assign a specific point on a title or track to be called back later.

- 1) During playback, press [SEARCH MODE] repeatedly until marker setting appears.
- 2) Use $[\triangleleft / \triangleright]$ to select a marker number (1-9).

MKR 1 2 3 4 5 6 7 8 9 AC

- TT ____:_:_
- 3) When the disc reaches the point you want to set a marker, press [ENTER].
 - The title or track and elapsed playback time will appear on the screen.
- 4) Press [SEARCH MODE] or [RETURN] to exit.
- 5) To return to the marker later, call the marker setting by pressing [SEARCH MODE] repeatedly during playback or in stop mode, and use [) to choose a desired marker, then press [ENTER].

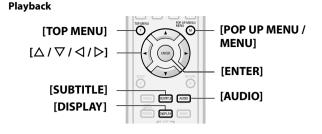
Note

- Opening the disc tray, turning the unit to the standby mode or selecting "AC" at step **2**) and pressing **[ENTER]** will erase all markers.
- To clear a marker, use [</ / ▷] to select the marker number to be cleared and press [CLEAR].
- You can mark up to 9 points.
- For BD-Video and AVCHD, marker search between different titles is not available.
- For BD and AVCHD, you can return to the maker only during playback.



Introduction

Connections



On-Screen Display

You can check information about the current disc by pressing **[DISPLAY]**.

To call the On-Screen Display, press **[DISPLAY]** during playback. Each time you press **[DISPLAY]**, the information changes. Depending on the media, available information varies.

BD-V AVCHD

 $OFF \rightarrow Title/Chapter information \rightarrow Title information (elapsed time) \rightarrow Title information (remaining time) \rightarrow HDMI information$ $<math>\rightarrow OFF$

DVD-V DVD-VR

OFF → Chapter information (elapsed time)

- → Chapter information (remaining time) → Title information (elapsed time) → Title information (remaining time)
- → Bit rate information → HDMI information → OFF

Function

Setup

OFF (Track information (elapsed time)) \rightarrow Track information (remaining time) \rightarrow Disc information* (elapsed time)

→ Disc information* (remaining time) → OFF (Track information (elapsed time))

(* not available during the program/random playback)

Others DivX[®] OFF → F (remaining

OFF \Rightarrow File information (elapsed time) \Rightarrow File information (remaining time) \Rightarrow File name information \Rightarrow HDMI information \Rightarrow OFF

MP3

OFF (File information (elapsed time)) → File name information → OFF (File information (elapsed time))

WMA

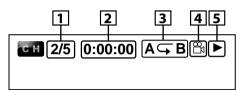
OFF (File information (elapsed time)) → File name information

- → Tag information (title name) → Tag information (artist name)
- ➡ OFF (File information (elapsed time))

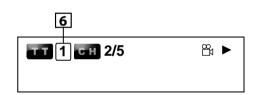
JPEG

 $OFF \Rightarrow$ File information \Rightarrow File name information \Rightarrow OFF

Chapter information



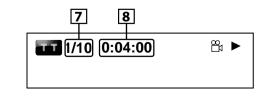
<Title / Chapter information for BD/AVCHD>



- 1 Current chapter number/total number of chapters
- 2 Elapsed time/remaining time of the current chapter
- Gurrent repeat setting (Only when repeat setting is active)

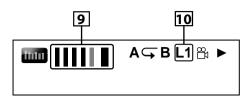
 (C: Chapter repeat, T: Title repeat, AB : A-B repeat)
- 4 Indicates that the multi camera angle images are available on the scene
- **5** Current playback status
- 6 Current title number

Title information

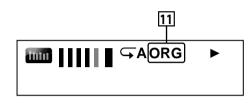


7 Current title number/total number of titles B Elapsed time/remaining time of the current title

Bit rate information

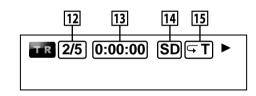


<For VR mode DVD-RW/-R>



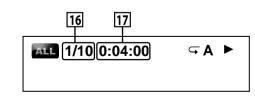
- **9** Bit rate (the amount of video data currently being read)
- **10** Layer number (Only for 2-layered discs)
- (L0: Layer 0 is played back. L1: Layer 1 is played back)
- **11** Type of title (ORG: original, PL: playlist)

Track/File information



- 12 Current track (file) number/total number of track (file)
- 13 Elapsed time/remaining time of the current track (file)
- **14** Indication of SD Memory Card playback
- 15 Current repeat setting (Only when repeat setting is active) (T: Track/file repeat, G: Group repeat, A: All repeat)

Disc information



- 16 Current track number/Total number of tracks
- **17** Elapsed time/remaining time of the current disc



Introduction

Connections

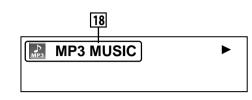
Playback

Function Setup

Others

Playback

File name information

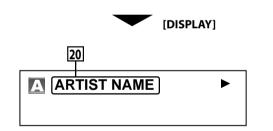


18 Media icon and File name



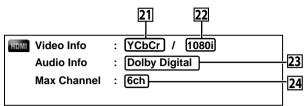
Tag information





- 19 Title name based on tag information of current Windows Media™ Audio file
- 20 Artist name based on tag information of current Windows Media™ Audio file

HDMI information



- 21 HDMI video format
- **22** Resolution of the HDMI output image
- 23 HDMI audio format
- 24 Maximum numbers of audio channels that can be accepted by the connected device

Note

If HDMI is not connected, "---" will be displayed for HDMI information.

Selecting the Format of Audio and Video

Selecting Audio Streams/Channels

BD-V DVD-V DVD-VR CD AVCHD DivX[®] Some discs or SD Cards with AVCHD files contain multiple audio streams. Those are often in different audio languages or audio formats. For BD available audio varies depending on the "BD Audio Mode" setting. Refer to page 25 for more information.

BD-V

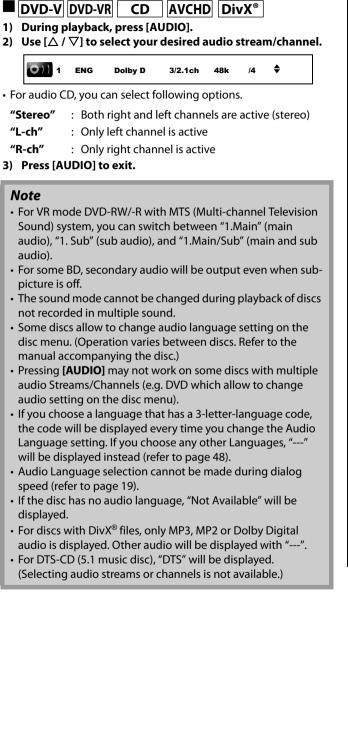
- 1) During playback, press [AUDIO].
- Use [△ / ▽] to select "Primary" or "Secondary" audio to set, then press [ENTER].

011	Prim	nary			
	1	ENG	Dolby D	Multi-ch	/3
	Seco	ondary			
	2	ENG	Dolby D+	Multi-ch	/3

- "Primary" : Sets the audio for the main picture.
- **"Secondary"**: Sets the audio for the sub-picture. When sub-picture is on, the "Secondary" audio will be output with the sub-picture.
- In order to listen to the secondary audio, the "BD Audio Mode" must be set to "Mix Audio Output". Refer to page 25.
- 3) Use $[\Delta / \nabla]$ to select your desire audio stream/channel.

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4) Press [AUDIO] to exit.



Plavback

BD-V

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"Primary Subtitle": "Secondary Subtitle": Sets the subtitle for the sub-picture.

"Subtitle Style": 3) Use $[\Delta / \nabla]$ to select your desired subtitle. 4) Press [SUBTITLE] to exit.

- DVD-V AVCHD DivX®
- 1) During playback, press [SUBTITLE].
- 2) Use $[\Delta / \nabla]$ to select your desired subtitle.

/3 ♦

Function

Setup

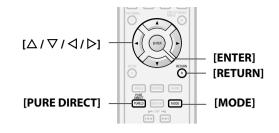
Others



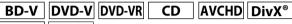
ENG

Note

- Some discs will only allow you to change the subtitle from the disc menu. Press [TOP MENU] or [POP UP MENU / **MENU1** to display the disc menu.
- If 4-digit language code appears in the subtitle menu, refer to "Language Code" on page 48.
- If the disc has no subtitle language or subtitle style, "Not Available" will be displayed.
- For DivX[®], the screen only displays the number of subtitle languages.



Virtual Surround



MP3 WMA

You can enjoy stereo phonic virtual space through your existing 2-channel stereo system.

1) During playback, press [MODE] repeatedly until the virtual surround setting appears.

off 🕹 ک

2) Use $[\Delta / \nabla]$ to select "1" (Natural effect), "2" (Emphasized effect) or "Off".

٩

3) Press [RETURN] to exit.

Note

- · Select virtual surround "Off" or lower the volume if the sound is distorted.
- This function cannot be used during dialog speed (refer to page 19).
- For the virtual surround, audio signal will always be 2-channel PCM.

Pure Direct Mode

BD-V DVD-V DVD-VR CD

MP3 WMA

Use this function to shut down unused circuitry to achieve high quality analog sound.

- 1) Press [PURE DIRECT] repeatedly to select your desired pure direct mode.
 - Each time you press [PURE DIRECT], the pure direct mode changes as "Normal" → "VideoOff" → "Disp.Off" → "All Off"

→ "Normal". The modes will be displayed on the front panel display.

Video / audio outputs for each mode

"Normal"	: Normal playback mode (pure direct mode is off).
"VideoOff"	: Video signal will not be output.
"Disp.Off"	: Circuitry for front panel display and

: Circuitry for front panel display and indicators will be shut down.

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: Video signal will not be output and circuitry for front panel display and indicators will be shut down.

Note

"All Off"

- If you turn off the unit or put this unit to standby mode, the pure direct mode will go back to "Normal".
- IPURE DIRECT is not available when the setup menu is displayed.

Setting the BD Audio Mode

BD-V

BD audio mode is to choose between two ways; you could output the secondary and interactive audio accompanied by the primary audio or you could output the primary audio only. Depending on the setting of the mode, Dolby Digital, DTS, Dolby Digital Plus, Dolby TrueHD, or DTS-HD output changes between Multi PCM and bitstream.

- 1) In stop mode with BD inserted, press [MODE].
- 2) Use $[\Delta / \nabla]$ to select desired setting.

"Mix Audio Output"

If it is available, BD-Video's secondary and interactive audio will be output with the primary audio.

• The secondary audio is the audio for the sub picture (Director's comment etc.) and the interactive audio is the audio for the interactive application (Button click sounds etc.).

"HD Audio Output"

Only the primary audio will be output. Set this mode in order to output Dolby Digital, Dolby Digital Plus, Dolby TrueHD, DTS or DTS-HD sound of BD through HDMI connection.

3) Press [RETURN] to exit.

• You can also set "BD Audio Mode" from the setup menu. Refer to page 33.

Note

• Refer to pages 13 - 14 for more information of audio settings.



Subtitle" or "Subtitle Style", then press [ENTER]. **Primary Subtitle** Secondary Subtitle

Selecting Subtitle Language

BD-V DVD-V AVCHD DivX®

1) During playback, press [SUBTITLE].

Subtitle Style

BD, DVD-Video, AVCHD and DivX[®] may have subtitles in 1 or more

languages. Available subtitle languages can be found on the disc

case. You can switch subtitle languages anytime during playback.

2 ENG/11

2 ENG/11

Sets style of the subtitle.

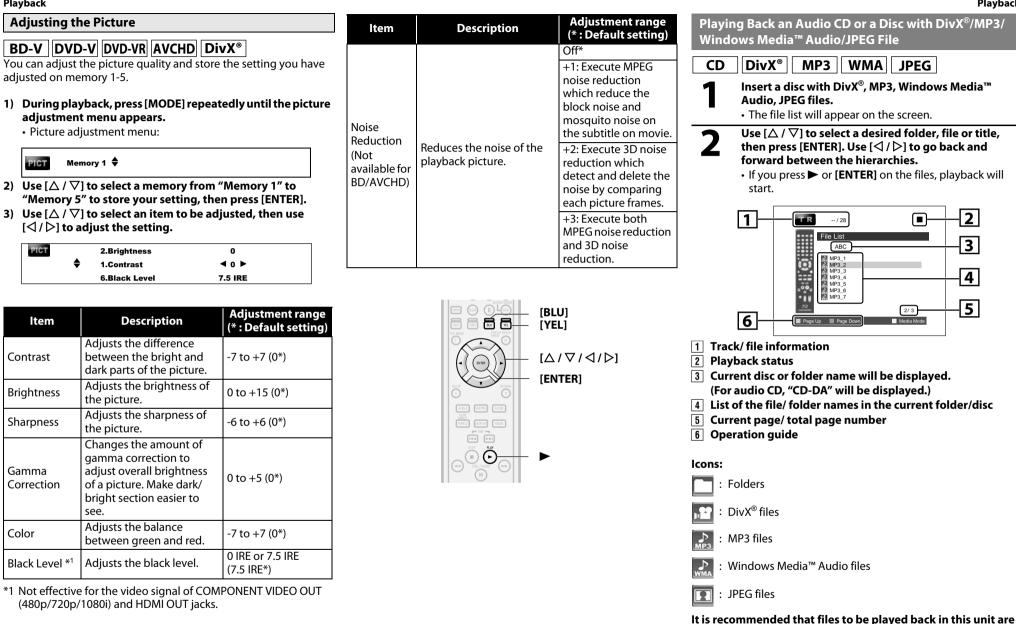
Sets the subtitle for the main picture.

2/25

2) Use $[\triangle / \nabla]$ to select "Primary Subtitle", "Secondary

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<DivX[®]> Official DivX[®] Certified product Plavable codec of AVI files : DivX[®] 3.x, DivX[®] 4.x, DivX[®] 5.x, DivX[®] 6.x Maximum size of image : 1920 x 1080 @30 fps 1280 x 720 @60 fps • Sampling frequency of audio : 16 kHz - 48 kHz Audio type : MPEG1 audio layer 3 (MP3), MPEG1 audio layer 2, **Dolby Digital** <MP3 / Windows Media[™] Audio> Sampling frequency : 44.1 kHz or 48 kHz Constant bit rate : 112 kbps - 320 kbps (MP3), 48 kbps - 192 kbps (Windows Media[™] Audio) <JPEG> Upper limit : 2.560 x 1.900 dots (sub sampling is 4:4:4) 5,120 x 3,840 dots (sub sampling is up to 4:2:2) Lower limit : 32 x 32 dots • File size of image maximum : 12 MB

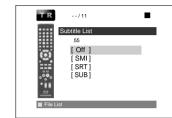
Note

- The system can recognize up to 255 folders/999 files for CD, 999 folders/9999 files for BD, DVD and SD Memory Card.
- The name of folder and file can be displayed up to 28 characters. Unrecognizable characters will be replaced with asterisks.
- The 9th and deeper hierarchies cannot be displayed for CD and the 10th and deeper hierarchies cannot be displayed for BD, DVD and SD Memory Card.
- Files whose extension is other than ".avi/ .divx (DivX[®])", ".mp3 (MP3)", ".wma (Windows Media[™] Audio)" or ".jpg / .jpeg (JPEG)" will not be listed.
- Some unplayable folders or files may be listed due to the recording status.
- High-resolution JPEG files take longer to be displayed.
- Progressive JPEG files (JPEG files saved in progressive format) cannot be played back on this unit.
- This unit recognize up to 8 characters of file name in the SD Memory Card. Characters after 8th will not be displayed.
- If a disc contains AVCHD files, the playback of other files which are in the same disc is not available.
- File list cannot be called up during playback of $\mathsf{DivX}^{\$}$ or JPEG files.

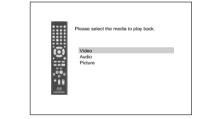
To Play Back the DivX[®] Subtitle Created by the User.

The subtitle created by the user can be displayed during $\mathsf{DivX}^{\circledast}$ playback.

 After selecting the DivX[®] file, use [△ / ▽] to select the file you want to playback, then press [BLU]. Subtitle list will appear.



- If there is more than one extension, the extension selection appears in the subtitle list.
- Use [△ / ▽] to select the desired extension of the subtitle file you want to display, then press [ENTER].
- If you insert a BD-RE/-R, DVD-RW/-R, CD-RW/-R with DivX[®] files that are mixed with MP3/Windows Media[™] Audio/JPEG files, the playback media selection screen will be displayed. Use [△ / ▽] to select your desired media to play back then press [ENTER].



 Press [YEL] to call up the playback media selection screen in stop mode.

Hint for the purchased or rental official DivX^{\otimes} Certified product

- When you purchased or rented a DivX[®] file through the official site of DivX[®] video which is called DivX[®] Video-On-Demand (VOD) services, a registration code is required every time you get the new file from the DivX[®] VOD services. Refer to "DivX(R) VOD" on page 38.
- Some DivX[®] VOD files are restricted with the limited playable times (you cannot play them back beyond the limit). If your DivX[®] VOD file has such limit, the playback confirmation screen will appear.



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- Use [◁ / ▷] to select "Yes" if you want to play back the file, or to select "No" if you do not wish to play it back. Then, press **[ENTER]** to confirm the selection.
- You cannot play back the DivX[®] VOD files, of which rental period has been expired. In such case, press [ENTER] and select other files that can be played back.
- Rental Expired This rental is expired. Please push 'ENTER'.

Authorization Error

This player is not authorized to play this video

Please push 'ENTER'

- You cannot play back the DivX[®] VOD files obtained with different registration codes on this unit. Press [ENTER] and select other files that can be played back.
- You cannot playback the DivX[®] file that has the resolution which this unit does not support. This unit does not support the DivX[®] files that have the image size that exceeds 1920 x 1080 @30 fps or 1280 x 720 @60 fps.
- For DivX[®] files with audio format other than MPEG1 audio layer 3 (MP3), MPEG1 audio layer 2 and Dolby Digital, audio will not be output and only the video will be output.

Resolution Error This player does not support this video format Please push 'ENTER'

Audio Format Error

This player does not support this audio format. Please push 'ENTER'.

Plavback



What is DivX[®]?

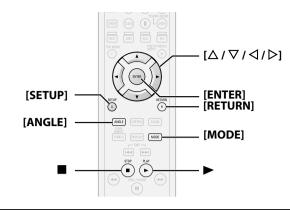
- DivX[®] is a codec (compression/decompression) that can compress images to a very small amount of data. The software can compress video data from almost any devices to the size that can be sent on the Internet without compromising visual guality of the images.
- A file with an extension of ".avi" and ".divx" is called an DivX[®] file. All files with the DivX[®] extension are recognized as MPEG4. • For more information for DivX[®], please visit
- http://www.divx.com.

Note for DivX[®]

- Even if the file has an extension of either ".avi" and ".divx", this unit cannot play it back if it is recorded in the format other than DivX[®].
- It may take a while for audio and images to be output after you inserted a disc and pressed \triangleright .
- When playing back the files recorded in high bit rates, the images can be interrupted in some occasions.
- Although DivX[®] logo has been obtained for this unit, it may not be able to play back some data, depending on the characteristics, bit rates, or audio format settings, etc.
- A DivX[®] file whose file size exceeds 32 GB cannot be played back.
- If a large-sized DivX[®] file is selected, it may take awhile to start the playback (over 20 seconds sometimes).
- If you try to playback the DivX[®] file that has the screen resolution which this unit does not support, the playback will be stopped and error message will appear.
- Some DivX[®] files cannot be played back on this unit due to the configuration and characteristics of the disc, or due to the condition of recording and authoring software.
- If DivX[®] files written on a CD-RW/-R or DVD-RW/-R cannot be played back, rewrite them on a BD-RE/-R and try to play back.

Note for DivX[®] Subtitle

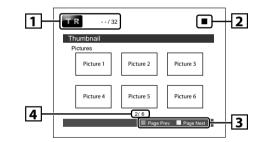
- To utilize this function, the following conditions must meet.
- Playback file and the subtitle file must have the same name.
- Playback file and the subtitle file must locate in the same folder.
- Only the subtitle files with the following extensions are supported; .smi (.SMI), .srt (.SRT), .sub (.SUB), .ass (.ASS), .ssa (.SSA), .txt (.TXT), (.sub (.SUB) and .txt (.TXT) files may not be recognized.)
- The subtitles that exceeds the playback time of the DivX[®] file will not be displayed.



Kodak Picture CD

This unit can also run JPEG files stored on Kodak Picture CD. You can enjoy picture images on the display device set by playing back the Picture CD. This unit confirms to ver.7.0 of Kodak Picture CD. For details of Kodak Picture CD, contact a shop that provides developing service of Kodak Inc.

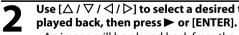
When Kodak Picture CD is inserted in this unit, Kodak Picture CD menu appear automatically on the screen.



- **1** File information
- 2 Playback status
- **3** Operation guide

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- 4 Current page/ total page number
 - Use $[\Delta / \nabla / \Delta / \triangleright]$ to select a desired track to be



- An image will be played back from the selected track and go to the next one in turn.
- Press To stop playback.

Tips for JPEG/Kodak Picture Playback

- Every press on [ANGLE] will turn the image clockwise by 90 degrees when an image is displayed.
- To change the visual effect for switching the playback image, press [MODE] once, then use $[\triangleleft / \triangleright]$ or [ENTER] to switch between "Cut In/Out" and "Fade In/Out". The size change may have no effect on some files (e.g. files with a small picture size).
- To change the size of the playback image, during the JPEG/ Kodak Picture playback. Press [MODE] twice, then use $[\triangleleft / \triangleright]$ or **[ENTER]** to switch between "Normal" (100%) and "Small" (93%). The size change may have no effect on some files (e.g. files with a small picture size).

Reading the SD Memory Card

AVCHD MP3 WMA JPEG

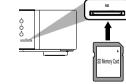
You can play back the AVCHD, MP3, Windows Media[™] Audio and JPEG files in an SD Memory Card. With the SD Memory Card, you can also enjoy the special additional contents for BD-ROM Profile 1.1 which can be downloaded from the Internet. You can store the contents on an SD Memory Card via computer and play them back with the BD-Video. For more information about the special additional contents, please refer to the instruction book that came with the disc.

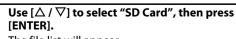


Inserting the SD Memory Card and playback

Insert an SD Memory Card, with the label side facing up, into the SD card slot until it clicks.

If no disc is in operation, "Media Select" screen will appear on the TV screen.





The file list will appear.

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Follow the step 2 in "Playing Back an Audio CD or a Disc with DivX[®]/MP3/Windows Media[™] Audio/ JPEG File" on page 26.

Setting the media

If the "Media Select" screen disappears before you make the selection, follow the following procedure to select the media to playback.

Press [SETUP] in stop mode.



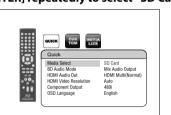
Use $[\Delta / \nabla]$ to select "Media Select".

3

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Press [ENTER] repeatedly to select "SD Card".

Use $[\triangleleft / \triangleright]$ to select **select**, then press [ENTER].



• This will set the unit to "SD Card" mode. To play back the contents in any discs, exit "SD Card" mode by selecting "Disc".

Press [SETUP] to exit.

Removing the SD Memory Card

In stop mode, push the SD Memory Card and then slowly remove your finger.

Grasp the card and pull it out from the SD card slot.

This will set the unit to "Disc" mode.

Compatible Cards:

- SD Memory Card (8MB 2GB)
- SDHC Memory Card (4GB 8GB)
- miniSD Card (8MB 2GB)
- microSD Card (8MB 2GB)
- For miniSD Card and microSD Card, adapter will be required.

Note

- The "Media Select" screen will disappear under the conditions listed below:
- when the screen saver is activated.
- when [RETURN] is pressed.
- when the setup menu is called up.
- Do not remove the card during its playback.
- This unit supports SD Memory Card with FAT12/FAT16 file system, and SDHC Memory Card with FAT32 file system.
- Do not delete the folders or files in the SD Memory Card with your computer. This unit might not read the SD Memory Card.
- This unit recognizes up to 8 characters of file name in the SD Memory Card. Characters after 8th will not be displayed.
- If a folder or file name includes one of the following unrecognizable characters, the folder or file name may not be displayed correctly.
- Unrecognizable characters : [., " = + []; / :]
- Even if you turn the unit to the standby mode in "SD Card" mode, it will be in "Disc" mode the next time you turn it on.

Enjoying BD-Live Discs with Internet

BD-V

You can enjoy the BD-Live functions which enable you to use the interactive functions when the unit is connected to the Internet. (For the Network connection, refer to page 39.)

Examples for BD-Live interactive functions :

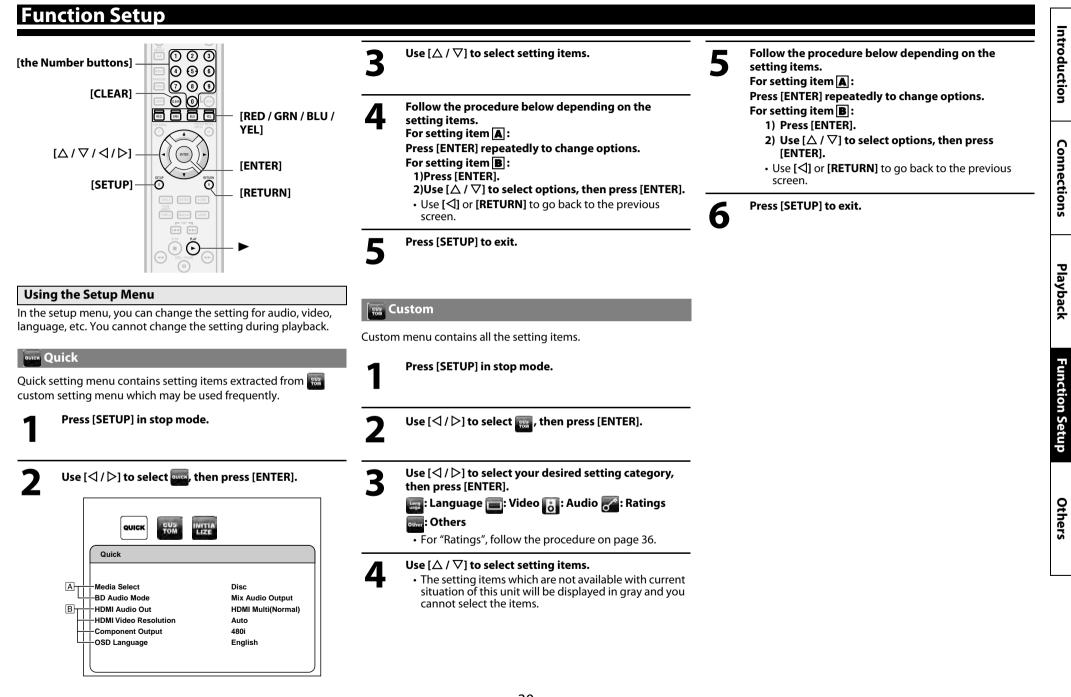
- Download the additional contents such as the movie's trailer, subtitles and BD-J. etc.
- While downloading, special video data may be played back.
- Service and functions differ depending on the disc.
- Follow the instructions given by the disc when using the **BD-Live function**.
- You must insert an SD Memory Card when using the BD-Live function. (SD Memory Card of 1GB is recommended.)
- Do not remove the SD Memory Card when using the BD-Live function.

Note

- You must connect the unit to the Internet and set up necessary settings in order to use the BD-Live function.
- For certain discs, setting for "BD-Live Setting" may need to be changed.
- Depending on your connection environment, it may take time to connect to the Internet or the Internet may not be connected.
- When BD-Live functions are used and the unit is connected to the Internet, you may be charged for this communication.

Note for AACS Online

- The player or disc IDs may be sent to the content provider when playing back a disc with BD-Live function.
- If you save your viewing history on the server by using these IDs, you will be introduced to other similar movies.
- You can save game score histories.



Function Setup 📕 🔙 Language Lang Other Language B┮┾╯ Dialog Original Subtitle Off -Disc Menu English -OSD Language English -DivX Subtitle Enalish

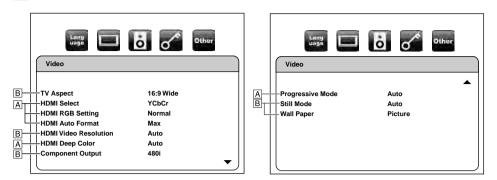
• For how to select the setting items and options, refer to "Custom" on page 30.

Setting items Options Dialog Original*/English/French/Spanish/German/Italian/ Swedish/Dutch/Russian/Chinese/Japanese/Korean/ Sets the language for audio. Danish/Finnish/Norwegian/Icelandic/Hungarian/ Romanian/Turkish/Greek/Irish/Portuguese/Polish/ Czech/Slovak/Bulgarian/Other Subtitle Off*/English/French/Spanish/German/Italian/Swedish/ Dutch/Russian/Chinese/Japanese/Korean/Danish/ Sets the language for subtitle. Finnish/Norwegian/Icelandic/Hungarian/Romanian/ Turkish/Greek/Irish/Portuguese/Polish/Czech/Slovak/ Bulgarian/Other Disc Menu English*/French/Spanish/German/Italian/Swedish/ Dutch/Russian/Chinese/Japanese/Korean/Danish/ Sets the language for disc menu. Finnish/Norwegian/Icelandic/Hungarian/Romanian/ Turkish/Greek/Irish/Portuguese/Polish/Czech/Slovak/ Bulgarian/Other Auto/English*/Français/Español outer **OSD** Language Sets the language for OSD (on-screen display). **DivX** Subtitle English*/French/Spanish Sets the language for DivX[®] Subtitle.

• Settings with (*) are the default.

Quick menu consists of the setting menus frequently used, and they are accompanied with mark.

• If you select "Other", enter the 4-digit number code for the desired language (refer to "Language Code" on page 48). Only the languages supported by the disc can be selected.



• For how to select the setting items and options, refer to "Custom" on page 30.

Setting items	Options
TV Aspect	16:9 Wide*:
Sets a picture size according to aspect ratio of the connected display device.	Select this when a wide-screen TV is connected. Disc recorded in wide screen format is played over the entire screen.
	4:3 Pan & Scan: Select this to play back the disc recorded in wide screer format with 4:3 TV in the pan & scan mode (with the sides of the picture cut off). Discs which pan & scan is not specified are played in the letter box mode.
	4:3 Letter Box: Select this to play back the disc recorded in wide screen format with 4:3 TV in the letter box mode. (with black strips at the top and bottom).
	4:3 Squeeze Auto: When playing 4:3 images, the picture is displayed in the center of the 16:9 screen with a 4:3 aspect ratio.
	4:3 Squeeze On: The picture is displayed in the center of the 16:9 TV screen with a 4:3 aspect ratio, regardless of the original image size.
HDMI Select Select an HDMI output mode between "YCbCr" and "RGB".	YCbCr*: Component format video signals and audio signals are output from the HDMI OUT.
	RGB: RGB format video signals and audio signals are output from the HDMI OUT.

Remote control operation buttons SETUP : Displaying the menu Cancel the menu	(Up/Down/Left/Right)	ENTER : Confirm the setting	RETURN : Return to previous menu
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Setting items	Options	Setting items	Options
HDMI RGB Setting	Normal*:	Progressive Mode	Auto*:
Sets the digital RGB image range data range) output from the HDMI	Output as "16 (black)" to "235 (white)".	Sets the optimum progressive mode for the image material	The progressive mode will detect 24-frame film materi (movies) and automatically select appropriate
DUT.	Enhanced: Output as "0 (black)" to "255 (white)". Depending on the display device you are using, the black colors may seem to stand out when using HDMI	output from HDMI OUT jack and COMPONENT VIDEO OUT jacks.	progressive mode. Video: Suited for playing video material discs (TV shows or animation).
	connections. If so, set to "Enhanced".	Still Mode	Auto*:
HDMI Auto Format Makes the setting of the "Auto" for "HDMI Video Resolution".	Max*: The maximum resolution that can be input to the connected HDMI device is detected and the HDMI	Adjusts picture resolution and quality in still mode.	Automatically selects the best resolution setting ("Frame" or "Field") based on the data characteristics of the pictures.
	output resolution is selected automatically. Panel: The number of pixels of the connected HDMI device's panel is detected and the HDMI output resolution is selected automatically.		Field: Stabilizes the pictures, although the picture quality m become coarse due to the limited amount of data. Select "Field" when the pictures are still unstable ever "Auto" is selected.
HDMI Video Resolution	Auto*: HDMI video resolution will be selected automatically depending on the connected HDMI device and setting of the "HDMI Auto Format".		Frame: Displays relatively motionless pictures in higher resolution. "Frame" improves the picture quality, although it may unstabilize the pictures due to alterna
	Source Direct: HDMI video resolution will be set to the recorded resolution of a playback media.		output of 2-field data.
	480i		
	480p		
	720р		
	1080i		
	1080p		
	1080p24: Gives a natural and high quality film reproduction of 24- frame film material. The connected display device has to be compatible with 1080p24 frame input.		
HDMI Deep Color	Auto*:		
Sets whether output the picture From HDMI with the Deep Color or	The picture through the HDMI will be output with Deep Color if the connecting device supports Deep Color.		
not.	Off: The picture through the HDMI will be output without Deep Color.		
Component Output	480i*		
	480p		
component output.	720p		
	1080i		
	isplaying the menu	cursor /Left/Right) : Confirm t	he setting RETURN : Return to previous menu

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Setting items			
3	Options	🖬 🐻 Audio	
Wall Paper Sets the picture to be displayed on	Picture*		
the screen for stop mode or audio	Blue Black	Language 🔲 🖥 🖍 Other	
olayback mode.	Gray	Lang Lang	
	Glay	Audio	
mark. For "HDMI RGB Setting", select "Enha effective only for HDMI RGB output. Even if "HDMI Video Resolution" is se frame or for DVD, a video resolution instead of 1080p24 frame. An individual picture on the screen is called as "Field". Some pictures may data characteristics. If the picture is not output properly t Resolution" or "Component Output" 5 seconds. Both settings will be reset If "Component Output" is set to "480 Aspect" are not available. If HDMI is connected, for video resolut resolution that currently output from If the video resolution for the component COMPONENT VIDEO OUT jacks may If you play back copy-protected DVD VIDEO OUT jacks, when "Component The setting items which are not avail gray and you cannot select the items Even if "HDMI Select" is set to "YCbCo output.	et to "1080p24", for the BD that is not recorded by 1080p24 supported by the disc and the display device will be output is called as "Frame", which consists of two separate images be blurred at the auto setting in "Still Mode" due to their to the display device because of the "HDMI Video "setting, press and hold ▶ on the front panel for more than it to the default automatically. Di"/"480p", "4:3 Squeeze Auto" and "4:3 Squeeze On" in "TV lution for the component output, you can only select video m HDMI OUT or 480i. Denent output and HDMI video resolution does not match, the output will be switched to current HDMI output resolution. not output any signals depend on the disc material. D-Video, 480p signal will be output from the COMPONENT at Output" is set to "720p" or "1080i".	Setting items BD Audio Mode For BD, select whether to output the secondary and interactive audio with primary audio if it is available or only the primary audio. Refer to "Setting the BD Audio Mode" on page 25. HDMI Audio Out Sets the audio format for the audio output from the HDMI OUT.	 ms and options, refer to "Custom" on page 30. Options Mix Audio Output*: Output the secondary and interactive audio with primary audio if it is available. HD Audio Output: Output only the primary audio. Set this mode in order to output Dolby Digital, Dolby Digital Plus, Dolby TrueHD, DTS or DTS-HD sound of BD through HDMI connection. HDMI Multi(Normal)*: The multi-channel audio signals are output from the HDMI OUT with a bitstream or PCM. HDMI Multi(LPCM): The multi-channel audio signals are output from the HDMI OUT with a PCM. Refer to pages 34-36 for speaker setting options. HDMI 2ch: The audio signals are output from the HDMI OUT with a downmixed to 2ch PCM. Audio Mute: Mutes the HDMI audio signal, and set the signal format of the DIGITAL OUT. Refer to the "Digital Out Setting" on page 34 for setting options.

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Setting items	Options
Down Sampling Sets the digital audio output when playing BD or DVD recorded in PCM.	 On: PCM signals are converted to 48 kHz for output. Set to "On" when using digital connections to an AV amplifier that is not compatible with sampling frequencies of 96 kHz. Off*: For BD or DVD recorded in PCM without copyright
	protection, 2-channel audio signals up to 192 kHz are output as PCM signals with no conversion.
DRC Sets whether to compress the range of sound volume (Dynamic Range Control) when Dolby Digital, Dolby Digital Plus or Dolby TrueHD	Auto*: When the discs that are recorded in the Dolby TrueHD format is in playback, this unit detects DRC setting of the disc and set the DRC setting of this unit to "On" or "Off" automatically.
audio is played back.	Off

• Settings with (*) are the default.

- Quick menu consists of the setting menus frequently used, and they are accompanied with mark.
- Under following circumstances, "HDMI Multi(Normal)", "HDMI Multi(LPCM)" and "HDMI 2ch" is not available.
 - HDMI cable is not connected to HDMI OUT jack.
 - Connected display device is off.
 - Connected display device is not compatible with audio output.

Digital Out Setting

When the "Audio Mute" is selected in "HDMI Audio Out" setting, audio signal of the HDMI is muted and the audio signals output from DIGITAL OUT changes depending on the "Digital Out" setting.

<"Digital Out" setting> Audio → HDMI Audio Out → Audio Mute

Bitstream*:

When playing back discs recorded in Dolby Digital, Dolby Digital Plus, Dolby TrueHD, DTS or DTS-HD, the corresponding core stream (Dolby Digital or DTS) are output.

LPCM:

Full decoded 2ch PCM signal will be output from DIGITAL OUT.

• This setting is not effective when the HDMI audio signal is output.

- When both HDMI and DIGITAL OUT is connected to other devices, the audio signals currently output from the HDMI OUT will be output from the DIGITAL OUT jack as well, except that HDMI 2ch signal will be output from HDMI OUT jack, when connected device does not support Dolby Digital and DTS.
- When "BD Audio Mode" is set to "Mix Audio Output", the audio output from DIGITAL OUT will follow the setting in the "HDMI Audio Out". (When outputting Multi PCM from HDMI OUT, 2ch Downmix PCM will be output from DIGITAL OUT.)
- Refer to pages 13 14 for more information of audio settings.

Speaker Setting

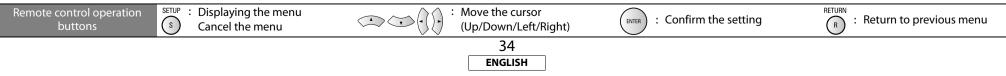
This unit allows you to enjoy multi-channel surround sound such as 7.1-channel / 5.1-channel surround.

<Example of basic layout with 7.1ch surround system>

Front speaker (left)

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Function Setup



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To make the most of its feature, set up your speakers appropriately by referring to the table below. Speaker setting options are available in SETUP \rightarrow Ouick \rightarrow HDMI Audio Out \rightarrow HDMI Multi(LPCM) or SETUP \rightarrow Custom \rightarrow Audio \rightarrow HDMI Audio Out \rightarrow HDMI Multi(LPCM)

How to navigate through the "HDMI Multi(LPCM)" setting

- 1) Use $[\Delta / \nabla]$ to select the menu item.
- 2) Use $[\Delta / \nabla]$ to select setting items.
- Use [**RETURN**] to go back to the previous screen.
- 3) Use $\left[4 / b \right]$ to select desired options. (Except for "Test Tone" and "Default".) For "Test Tone":

Use $[\triangleleft/ \triangleright]$ to select "Manual" or "Auto", then press [ENTER].

- The test tone will be output. If you select "Manual", use $[\Delta / \nabla]$ to select desired speaker, then use [4/b] to adjust the volume. If you select "Auto", use [4/b] to adjust the volume of the speaker that output the test tone.
- If you want to stop the test tone, press [RETURN].
- For "Default":

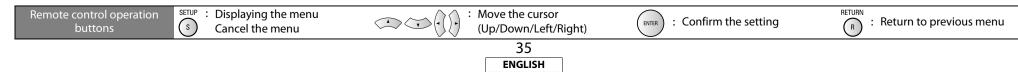
Press [ENTER] to reset the "Speaker Configuration", "Channel Level" or "Delay Time" setting to the default.

4) Press [SETUP] to exit.

Menu	Setting items	Options	Descriptions
Speaker Configuration	Front	Large*	Large:
Select the desired speaker to set. Then change the setting appropriately by referring to the descriptions.		Small	 For the large speakers with strong low frequency
	Center	Large*	reproduction capabilities. Small:
	Small	Small	For the small speakers
	Subwoofer	On*	which do not provide strong bass sound.
	Surround		You cannot change the setting of "Subwoofer".
		Small	If connected device is not
	Surround Back	Large*	 compatible with subwoofer, "Subwoofer"
		Small	will be displayed in gray.
	Default	·	Select "Default", then press [ENTER] to reset the "Speaker Configuration" setting to the default.

• For "Speaker Configuration" setting, the settings of each speaker size may be adjusted automatically corresponding to each setting. (e.g. If "Front" is set to "Small", you cannot set "Center", "Surround" and "Surround Back" to "Large".)

Menu	Setting items	Options	Descriptions
Channel Level Tests or sets the volume for each speaker.	Test Tone: "Test Tone" is the test tone which can be output from the speakers so that you can adjust the volume	Off* Manual	Select "Off" to deactivate the "Test Tone" feature. Select "Manual", then press [ENTER] to manually set the volume for the desired speaker.
	for each speaker.	Auto	Select "Auto", then press [ENTER] to automatically output the test tone from each speaker.
	Front Lch	0 dB to -12 dB (0 dB*)	If you have selected "Manual" in "Test Tone",
	Center	0 dB to -12 dB (0 dB*)	select the desired speaker to set and adjust the volume for the selected
	Front Rch	0 dB to -12 dB (0 dB*)	speaker. If you have selected
	Surround Rch	0 dB to -12 dB (0 dB*)	"Auto" in "Test Tone", test tone will be output
	Surround Back Rch	0 dB to -12 dB (0 dB*)	automatically in order. Adjust the volume of the
	Surround Back Lch	0 dB to -12 dB (0 dB*)	speaker that output the test tone.
	Surround Lch	0 dB to -12 dB (0 dB*)	
	Subwoofer	0 dB to -12 dB (0 dB*)	
	Default		Select "Default", then press [ENTER] to reset the "Channel Level" setting to the default.



Function Setup

Function Setup

liction betup			
Menu	Setting items	Options	Descriptions
Delay Time This is a parameter for optimizing the timing at which the sound is output from the speakers according to their distance from the listening position.	Distance	Feet*	Set the desired measure system. This measure system will be used for "Delay Time"
		Meters	setting. Press [ENTER] to switch the setting.
	Front	0ft to 60ft (12ft*) (0m to 18m (3.6m*))	Select the distance from the listening point to the speaker to get the ideal
	Center	0ft to 60ft (12ft*) (0m to 18m (3.6m*))	delay time.
	Surround	0ft to 60ft (10ft*) (0m to 18m (3.0m*))	
	Surround Back	0ft to 60ft (10ft*) (0m to 18m (3.0m*))	
	Default		Select "Default", then press [ENTER], to reset the "Delay Time" setting to the default.

- Settings with (*) are the default.
- For "Delay Time", the difference between the value of the "Front", "Surround" and "Surround Back" setting cannot exceed 15 ft (4.5m), and the difference between the value of the "Front" and "Center" setting cannot exceed 5 ft (1.5m).
- For "Delay Time", the value of the "Center", "Surround" and "Surround Back" setting cannot exceed the value of the "Front" setting.
- For "Delay Time", the setting of "Center", "Surround" and "Surround Back" will be changed automatically to the setting value of the "Front". (e.g. If the "Front" is set to 60ft (18m), the setting of "Center", "Surround" and "Surround Back" will be changed to 60ft (18m) as well.)
- If you want to stop the test tone, press [RETURN].

📕 🚮 Ratings

Ratings control allows you to set a limit, which prevents your children from viewing inappropriate materials. Playback will stop if the ratings exceed the levels you set, and it will require you to enter a password before the disc will play back.

Lang uage	o o	Other
Ratings		
BD Rating Level	All	
DVD Rating Level Password Change	All	
)

- 1) Use $[\triangleleft/\triangleright]$ to select \mathbb{R}^{2} , then press [ENTER].
- 2) Press [the Number buttons] to enter your 4-digit password.

For the first time use: Press [the Number buttons] to enter any 4-digit number (except for 4737), then press [ENTER]. That number will be used as the password from the second time. Record your password in case you forget it.

- If you forgot the password, enter [4], [7], [3], [7]. The password will be cleared and rating level will be set to "All".
- While you input the password, press [CLEAR] to clear the number, then re-enter the password.

Proceed to A – C

A) BD Rating Level

- 1) Use $[\triangle / \nabla]$ to select "BD Rating Level", then press [ENTER].
- 2) Use $[\Delta / \nabla]$ to select your desired option, then press [ENTER].
 - "All" : To release the limitation.
 - "Age Setting": To set the age limitation.
 - After selecting "Age Setting", use [the Number buttons] to enter the age from 0 254.
 (e.g. for age 15, press [0],[1],[5])
- 3) Press [SETUP] to exit.

B) DVD Rating Level

- 1) Use $[\Delta / \nabla]$ to select "DVD Rating Level", then press [ENTER].
- 2) Use $[\Delta / \nabla]$ to select a desired level, then press [ENTER].
- 3) Press [SETUP] to exit.



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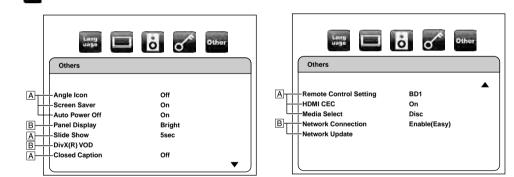
• All	: Parental control is inactive; all discs can play back.
7.00	
• 8 [Adult]	: DVD software of any grades (adult/general/children) can be played back.
• 7 [NC-17]	: No one under 17 admitted.
• 6 [R]	: Restricted; under 17 requires accompanying parent or adult guardian.
• 5 [PGR]	: Parental guidance recommended.
• 4 [PG13]	: Unsuitable for children under 13.
• 3 [PG]	: Parental guidance suggested.
• 2 [G]	: General audience.
• 1 [Kid Safe]	: Suitable for children.

C) Password Change

Use [△ / ▽] to select "Password Change", then press [ENTER].
 Enter a new 4-digit password, then press [ENTER].

3) Press [SETUP] to exit.

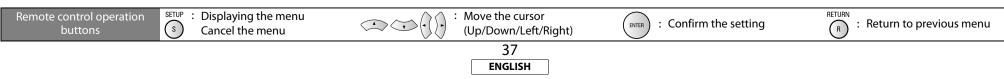
Others



• For how to select the setting items and options, refer to "Custom" on page 30.

Setting items	Options	Description
Angle Icon	On Off*	On: The angle icon appears on the screen when playback the scene with various angle. Off: The angle icon disappears on the screen.
Screen Saver	On* Off	On: If this unit is left with no activity for more than 5 minutes, the screen saver will be activated. Off: Sets off the screen saver.
Auto Power Off	On* Off	On: If this unit is left with no activity for more than 30 minutes, this unit turns to the standby mode automatically. Off:
		Sets off the auto power off.
Panel Display Sets the brightness of the	Bright* Dimmer	Bright: Front panel display gets brighter
front panel display.	Auto	Dimmer: Front panel display gets darker.
		Auto: Front panel display gets darker during playback.
Slide Show Sets the display time for the still picture (in JPEG format) playback.	5sec* 10sec	

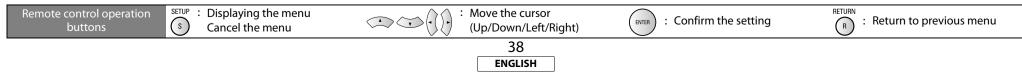
Others



Others

to page 6.)

ion Setup						Function Setu	
Setting items	Option	IS	Description	Setting items	Options	Description	
DivX(R) VOD	Registration Cod Your registration	code is:	This menu item provides you with the DivX® VOD registration code. The DivX® registration code is required when downloading the DivX® VOD files from the Internet. To learn more about DivX® VOD, visit www.divx.com/vod. This menu item provides you with the DivX® VOD deactivation code. The DivX® VOD deactivation code is required when re-downloading the DivX® VOD files from the Internet after deactivating. To learn more about DivX® VOD, visit www.divx.com/vod. This menu deactivates the	HDMI CEC Sets whether to utilize the HDMI CEC function.	On* Off		
	To learn more vis www.divx.com/v			Media Select Select the media to playback.	Disc* SD Card	Disc: Select this when you play back a disc.	
	Deactivation Coo Your deactivatio					SD Card: Select this when you play back a SD Memory Card.	
	To learn more vis	COOCOCO To learn more visit www.divx.com/vod		t required when re-downloading	Network Connection Refer to "Network Connection" on page 39	Connection Test	Perform the network connection test to check if the network settings are correctly made.
	Deactivation	Yes		for more details of each setting.	Enable(Easy)*	Set all the network settings to the default settings. (In most cases, you can connect to the Internet without making any changes to	
		No*	DivX [®] VOD files and provides you with new registration code and deactivation code in order to download the DivX [®] VOD files		Enable(Custom)	the default settings.) Set the network settings manually in accordance with your network environment, if necessary.	
Closed Caption	On		from the Internet.		Disable	Deactivate the network connection.	
Sets whether to display the closed caption or not using the caption decoder commercially available).	Off*			Network Update Refer to "Network Update" on page 41 for more detail.	Yes No*	You can update the firmware version by connecting this unit to the Internet.	
Remote Control Setting Changes the signal code of a remote control. (Refer	BD1* BD2						



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Function Setup

Connection Test

Network Connection

After you made IP address/DNS settings or when a LAN cable is connected, always perform the connection test to check if the connection is correctly made.

1) Press [SETUP] in stop mode.

2) Use $[\triangleleft / \triangleright]$ to select \overline{m} , then press [ENTER].

3) Use $[\triangleleft / \triangleright]$ to select $\overline{\mathbf{o}}$, then press [ENTER].

4) Use $[\triangle / \nabla]$ to select "Network Connection", then press [ENTER].

5) Use $[\Delta / \nabla]$ to select "Connection Test", then press [ENTER].

Connection test will start automatically and the test result will appear right after the connection test finishes.

- "Testing..." : The test is in progress.
- "Pass" : Connection test is successfully completed.

• "Fail" : Connection test failed. Check the connection settings.

Press [ENTER] to go to the list of network status confirmation screen.

Lang Jage	0	Other
Connection Test		
IP Address	*** . *** . *** . :	***
Subnet Mask	*** . *** . *** . :	***
Default Gateway	*** . *** . *** .	***
Primary DNS	*** . *** . *** .	***
Secondary DNS	*** *** ***	

6) Press [ENTER] to go back to the previous screen or press [SETUP] to exit.

Auto(DHCP)

Do Not Use

Auto

Allow

Note

- If the connection test passes, you can enjoy the BD-Live functions using the Internet without making any extra settings.
- If the connection test fails, you may need to change the MAC address settings of your router. You can check the MAC address of this unit at the bottom of the "Enable(Custom)" screen.

Enable(Easy)

Network settings are set to the following settings initially. (In most cases, you can connect to the Internet without making any changes to the default settings.)

- IP Address Setting Auto(DHCP)
- DNS Setting
- Proxy Setting
- Connection Speed
- BD-Live Setting

If you want to set the network settings back to the default settings as above (except "BD-Live Setting"), follow the procedure below.

- 1) Follow steps 1) to 4) in "Connection Test" on this page.
- 2) Use $[\Delta / \nabla]$ to select "Enable(Easy)", then press [ENTER].
- The unit will start the connection test automatically and the test result will appear right after the test finishes.
- After the connection test finishes, press **[ENTER]** to go to network status confirmation screen.
- 3) Press [ENTER] to activate the network settings and set the network connection automatically. Press [SETUP] to exit.

Note

• The setting of "BD-Live Setting" will not be set back to the default, even if you follow the procedure.

Enable(Custom)

If you need to set specific settings manually in accordance with your network environment, select "Enable(Custom)" to set each setting as necessary.

IP Address Setting

- 1) Follow steps 1) to 4) in "Connection Test" on this page.
- 2) Use [Δ / ∇] to select "Enable(Custom)", then press [ENTER].
- 3) Use [\triangle / ∇] to select "IP Address Setting".
- 4) Press [ENTER] repeatedly to select the desired setting.

"Auto(DHCP)" : If your router has DHCP server function, select "Auto(DHCP)".

"Manual" : If your router does not have DHCP server function, select "Manual".

If you select "Manual", follow the following instruction to set the IP address.

Use [Δ / ∇] to select "IP Address", then press [**ENTER**].

• IP address setting screen will appear. Enter IP address, subnet mask and default gateway with $[\Delta / \nabla / \langle / \rangle]$ and **[the Number buttons]**.

ungo 🔲 🚺 💣 Other
IP Address Setting
IP Address
Subnet Mask
Default Gateway
then press 'ENTER'.

- Enter the IP address number after checking the specifications of your router.
- If the IP address number is unknown, check the IP address number of other devices.
 (e.g. PC connected via LAN cable) and assign a different number from those of other devices.
 After you enter all correctly, press [ENTER].
- Confirmation message will appear.
- Remote control operation SETUP : Move the cursor RETURN : Displaying the menu Confirm the setting ENTER • Return to previous menu S R buttons Cancel the menu (Up/Down/Left/Right) 39 ENGLISH

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Use $[\Delta / \nabla]$ to select "Yes", then press **[ENTER]** to complete the setting. **5) Press [SETUP] to exit.**

DNS Setting

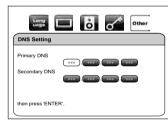
1) Follow steps 1) to 2) in "IP Address Setting" on page 39.

- 2) Use $[\triangle / \nabla]$ to select "DNS Setting".
- 3) Press [ENTER] repeatedly to select the desired setting.

"Auto(DHCP)" : If your router has DHCP server function select "Auto(DHCP)". "Manual" : If your router does not have DHCP server function, select "Manual".

If you select "Manual", follow the following instruction to set the DNS.

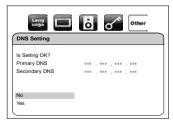
- Use [Δ / ∇] to select "Primary DNS", then press [**ENTER**].
- DNS setting screen will appear. Enter primary DNS and secondary DNS with $[\Delta / \nabla / \langle / \rangle]$ and **[the Number buttons]**.



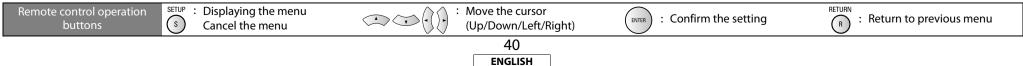
- Enter the numbers instructed by your Internet provider.
- If the number is unknown, check the number of other devices (e.g. PC connected via LAN cable) and assign the same number.

After you enter all correctly, press [ENTER].

Confirmation message will appear.



Use $[\Delta / \nabla]$ to select "Yes", then press **[ENTER]** to complete the setting. 4) **Press [SETUP] to exit.**



- 1) Follow steps 1) to 2) in "IP Address Setting" on page 39.
- 2) Use $[\Delta / \nabla]$ to select "Proxy Setting".
- 3) Press [ENTER] repeatedly to select the desired setting.
 - For default settings, select "Do Not Use".
 - Please use this setting when instructed by your Internet service provider.
 - If you select "Use", follow the following instruction to set the proxy address and proxy port.

Proxy Address

Use $[\Delta / \nabla]$ to select "Proxy Address", then press **[ENTER]**.

Enter proxy address.

• The keyboard screen will appear.



$[\Delta / \nabla / \langle / \rangle]$: Move the highlight.

[the Number buttons] : Enter number.

- [ENTER] : Enter the highlighted number/word.
 - [RED] : Clear the entered number or word.
- [GRN] : Clear all the entered numbers or words.
- [BLU] : Switch between abc ? ABC ? @!?
- [YEL] : Set the entered number or word.

After you enter all correctly, press [YEL].

Confirmation message will appear.



Use $[\Delta / \nabla]$ to select "Yes", then press **[ENTER]** to complete the setting and go back to the proxy setting screen.

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Proxv Port

Use [△ / ▽] to select "Proxy Port", then press [ENTER].
Proxy port setting screen will appear.

Enter proxy port number with [the Number buttons].



After you enter all correctly, press [ENTER] to complete the setting. 4) Press [SETUP] to exit.

Note

For IP Address Settings and DNS Settings:

- The range of input number is between 0 and 255.
- If you enter a number larger than 255, the number will automatically be 255.
- The manually entered number will be saved even if you change the setting to "Auto(DHCP)".
- When you enter a wrong number, press [CLEAR] to cancel. (The number will be back to "0".)
- If you want to enter 1 or 2-digit number in one cell, press [>] to move on to the next cell.
- If the entered IP address or the default gateway or primary DNS number is same as the default setting, IP address setting will be set to "Auto(DHCP)". (The manually entered number will be saved.)
- When IP address setting is set to "Manual", the setting of DNS setting will automatically be "Manual" and when IP address setting is set to "Auto(DHCP)", you can set either "Auto(DHCP)" or "Manual" for DNS setting.

For Proxy Settings:

- The range of input number for the proxy port number is between 0 and 65535. (If you enter a number larger than 65535, it will be regarded as 65535.)
- For proxy port, the selected ports may be blocked and not be able to use depending on your network.

Connection Speed

You can set connection speed as your preference. (The default setting is "Auto".) 1) Follow steps 1) to 2) in "IP Address Setting" on page 39. 2) Use $[\Delta / \nabla]$ to select "Connection Speed", then press [ENTER]. 3) Use $[\Delta / \nabla]$ to select the desired setting, then press [ENTER].

- "Auto": Set the appropriate connection speed automatically, in accordance with your network environment.
- "10BASE Half" : Set the connection speed to "10BASE Half".

"10BASE Full" : Set the connection speed to "10BASE Full". "100BASE Half" : Set the connection speed to "100BASE Half". "100BASE Full" : Set the connection speed to "100BASE Full".

4) Press [RETURN] to go back to previous screen, or press [SETUP] to exit.

BD-Live Setting

You can limit the Internet access from the BD-Live functions. (The default setting is "Allow".) 1) Follow steps 1) to 2) in "IP Address Setting" on page 39. 2) Use $[\Delta / \nabla]$ to select "BD-Live Setting", then press [ENTER]. 3) Use $[\Delta / \nabla]$ to select the desired setting, then press [ENTER].

"Allow" : Internet access is permitted from all BD-Live contents.

"Limited Allow" : Internet access is permitted only for BD-Live contents which have content owner certificates. Internet access without the certificates are prohibited. "Prohibit" : Internet access is prohibited from all BD-Live contents.

4) Press [RETURN] to go back to previous screen, or press [SETUP] to exit.

Disable

- You can deactivate all the network connection and settings by following the instructions below.
- 1) Follow steps 1) to 4) in "Connection Test" on page 39.
- 2) Use [\triangle / ∇] to select "Disable", then press [ENTER].
- 3) Press [RETURN] to go back to previous screen, or press [SETUP] to exit.

Note

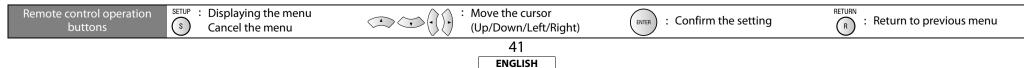
• The network connection can be reactivated by setting the network connection to "Enable(Easy)" or "Enable(Custom)".

Network Update

You can update the software by connecting the unit to the Internet.

- 1) Follow steps 1) to 3) in "Connection Test" on page 39.
- 2) Use [△ / ▽] to select "Network Update", then press [ENTER].
 Confirmation message will appear.
- 3) Use $[\triangle / \nabla]$ to select "Yes", then press [ENTER].
 - This unit will start checking for the latest firmware version.
- 4) Confirmation message will appear.
 - Use [Δ / abla] to select "Yes", then press [ENTER].
 - The unit will start downloading the latest firmware version.
- 5) When the download completes, confirmation message will appear. Press [ENTER].
 - The unit will start updating the firmware version.
- It may take a while to complete the updating. (Please wait until "100%" appears on the front panel display.)

6) After updating finishes, this unit will restart and open the disc tray automatically.



ections

Playback

Function Setup

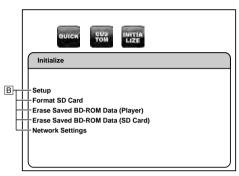
Function Setup

Note

- Please do not unplug the AC cord or LAN cable while executing the "Network Update".
- All settings will remain the same even if you update the firmware version.
- The disc tray will open automatically after updating finishes. This is not a malfunction.

Initialize

Initialize the setting or SD Memory Card.



• For how to select the setting items and options, refer to "Custom" on page 30.

Setting items	Options	Description
Setup	Yes	Yes:
	No*	Resets all settings in setup, except for "Ratings" and "Network Connection", to the factory default.
		No:
		Does not perform the initialization.
Format SD Card	Yes	Yes:
	No*	Re-format SD Card.
		No:
		Does not perform the initialization.
Erase Saved BD-ROM Data (Player)	Yes No*	Yes: Re-format BD-ROM Data (Player) used for BD-Java.
		No: Does not perform the initialization.

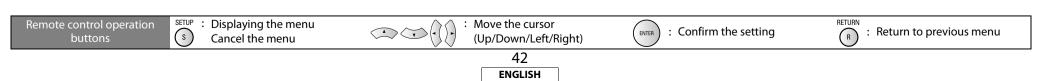
		Function Setup	
Setting items	Options	Description	
Erase Saved BD-ROM Data (SD Card)	Yes No*	Yes: Re-format BD-ROM Data (SD Card) used for BD-Java.	Introdu
		No: Does not perform the initialization.	ction
Network Settings	Yes No*	Yes: Initialize all the network settings.	
		No: Does not perform the initialization.	Conn

- 1) Press [SETUP] in stop mode.
- 2) Use $[\triangleleft/\triangleright]$ to select \overline{m} , then press [ENTER].
- 3) Use $[\Delta / \nabla]$ to select a desired option, then press [ENTER].

"Setup"	: All the settings except for the "Ratings" and "Network Connection" setting will be reset to default.	
"Format SD Card"	: Initialize the SD Memory Card.	
"Erase Saved BD-ROM Data (Player)"	: BD-ROM data for Player used for BD-Java will be initialized.	
"Erase Saved BD-ROM Data (SD Card)"	 BD-ROM data for SD Card (available only when an SD Memory Card is inserted) used for BD-Java will be initialized. 	
"Network Settings" : Reset the network setting to the default. 4) Confirmation message will appear. Use $[\Delta / \nabla]$ to select "Yes", then press [ENTER].		
5) Press [SETUP] to exit.		

Note

- Do not remove the SD Memory Card while executing the "Format SD Card" or "Erase Saved BD-ROM Data (SD Card)". It will damage the card.
- "Format SD Card" and "Erase Saved BD-ROM Data (SD Card)" are not available when a Blu-ray Disc is in the unit.



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Trademark Information



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



Master Audio | Essential

Cts-HD

Manufactured under license under U.S. Patent #'s: 5,451,942: 5.956.674: 5.974.380: 5.978.762: 6.226.616: 6.487.535: 7.392.195:

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Explanation of Terms

Numerics

4:3 Letter Box

When a wide (16:9) disc is played back by connecting a 4:3 TV and the BD5004, this function plays back the image with black area at the top and bottom.

4:3 Pan-and-Scan

When a wide (16:9) disc is played back by connecting a 4:3 TV and the BD5004, this function cuts left and right of the played back image to the 4:3 size according to the disc's control information.

Α

Analog Audio

An electrical signal that directly represents sound. Compare this to digital audio which can be an electrical signal, but is an indirect representation of sound. See also "Digital Audio".

Aspect Ratio

This is the length and width ratio of the TV screen. The conventional TV's screen ratio is 4 : 3 and the wide screen TV's screen ratio is 16:9.

AVCHD

AVCHD is a new format for high definition video camcorders which can record and play high-resolution HD images.

В

BD-J (Java)

With BD-Videos, there are fun software with more interactive functions (games) using Java applications.

BD-Live

BD-Live is a BD-Video (BD-ROM version 2 Profile 2.0) which contains new functions (e.g. Internet connection), in addition to the BONUSVIEW function.

Bit Rate

This expresses the read amount per 1 second of video/audio data recorded in a disc.

Blu-ray Disc

This is one-side 1 layer disc having 25GB capacity and can record high vision video movie and games.

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Others BONUSVIEW

Special images for BD-Videos. It includes comment of the movie director, simultaneously developing sub-story, and images from different angles.



Chapter

This is a break intended by a producer who organizes the title of BD or DVD-Video. The chapter search function searches the beginning of this break.

Component Video Output

Each signal of luminance (Y) and component (PB/CB, PR/CR) is independent to output so that you can experience picture color as it is. Also, due to compatibility with progressive video (525p/ 480p), you can experience higher-density picture than that in interlace (525i/480i).

D

Deep Color

This technology allows expression of more number of colors than the conventional 8 bits and can reproduce colors close to natural ones without color streak.

DHCP (Dynamic Host Configuration Protocol)

This mechanism automatically perform network configuration such as IP address for network devices including BD5004, PC, and broadband router.

Digital Audio

An indirect representation of sound by numbers. During recording, the sound is measured at discrete intervals (44,100 times a second for CD audio) by an analog-to-digital converter, generating a stream of numbers. On playback, a digital-to-analog converter generates an analog signal based on these numbers. See also "Sampling Frequency" and "Analog Audio".

DivX®

DivX[®] is a codec (compression/decompression) that can compress pictures to a very small amount of data. The software can compress video data from almost any devices to the size that can be sent on the Internet without compromising visual quality of the pictures.

DNS Server

A server which translates Internet domain names into IP addresses.

Dolby Digital (5.1ch Surround)

This is a stereophonic effect developed by Dolby Laboratories. This is maximum 5.1 channels of independent multi-channel audio system.

Dolby Digital Plus

This is an extension version of Dolby Digital and is a high sound quality digital audio technology adopted as an optional audio for Blu-ray disc.

Dolby TrueHD

This lossless coding technology is adopted as optional audio for Blu-ray disc and supports 7.1 channels.

Downmix

This function converts the number of channels of surround audio to less number of channels and plays back.

DTS

This is an abbreviation of Digital Theater System, which is a digital audio system developed by DTS. When playing back audio by connecting this system with a device such as DTS amplifier, accurate sound field position and realistic sound effect as if you are in a movie theater can be obtained.

DTS-HD

This audio technology provides higher sound quality and enhanced functionality than the conventional DTS and is adopted as an optional audio for Blu-ray disc. This technology supports multi-channel, high data transfer speed, high sampling frequency, and lossless audio playback. Maximum 7.1 channels are supported in Blu-ray disc.

Dynamic Range

The difference between the maximum undistorted sound level and the minimum sound level that is discernible above the noise emitted by the device.



Finalize

This is processing that enables playing back of disc of BD/DVD/CD which was recorded using a recorder, by other players.



Gateway

IP address of the electronic devices (such as router) which provide Internet access.

н

HDCP

When transmitting digital signals between devices, this copyright protection technology encrypts the signals to prevent content from being copied without authorization.

HDMI

This is an abbreviation of High-Definition Multimedia Interface, which is an AV digital interface that can be connected to a TV or amplifier. Video signal and audio signal can be connected using 1 cable.

Hub

A device used for connecting multiple devices to the network.

I.

Interactive Audio

Audio such as click sound that is generated during operation and is recorded in the title of BD-Videos.

Interlacing (interlaced scanning)

This conventional method used to project images on a TV displays 1 frame of image in half and half, respectively as 2 fields.

IP Address

A set of numbers which are assigned to devices participating in a computer network.

J

JPEG (Joint Photographic Experts Group)

JPEG is a method of compressing still picture files. You can copy JPEG files on disc or SD Memory Card from a computer and play back the files on this unit.

L

LAN (Local Area Network)

A group of computer networks covering a small area like a company, school or home.

Linear PCM

This signal is uncompressed PCM (Pulse Code Modulation) signal. This is the same system as the CD audio but this uses 192kHz, 96kHz, and 48kHz sampling frequencies in BD or DVD and provides higher sound quality than CD.

Local Storage

A storage area of sub contents for playing virtual packages on BD-Video.

М

MPEG

This is an abbreviation of Moving Picture Experts Group, which is an international standard of the moving picture audio compression method. Images of BD and DVD are recorded using this method.

Others

Connections

Playback

Function

PCM (Pulse Code Modulation)

Ρ

The most common system of encoding digital audio, found on CD and DAT. Excellent quality, but requires a lot of data compared to formats such as Dolby Digital and MPEG audio. For compatibility with digital audio recorders (CD, MD and DAT) and AV amplifiers with digital inputs, this unit can convert Dolby Digital and MPEG audio to PCM. See also "Digital Audio".

Picture-in-Picture

This BD-Video function allows you to view making or commentary scenes in the secondary video while viewing the main story in the primary video.

Popup Menu

This menu recorded in BD software. While playing back a BD, this menu can be displayed on the front of the screen and can be operated.

Primary Audio

This audio signal is recorded in the main story in BD-Video.

Progressive (sequential scanning)

This is a scanning system of video signal that displays 1 frame of video as one image. Compared to the interlace system, this system provides images with less flickering and bleeding.

Proxy Server

Proxy server is a server which acts as an intermediary between a workstation user and the Internet to ensure security.

Rating

Depending on the age of the viewer, this function restricts playing back of BD-Video or DVD-Video. BD5004 can be set to restrict viewing in 1 to 254 level for BD-Video, and 1 to 8 level for DVD-Video.

Region Code

R

This code indicates country or region where the BD or DVD-Video can be played back.

Router

A networking device which distinguishes the IP address assigned to each device and routing and forwarding information in the computer network.

S

Sampling Frequency

The rate which sound is measured by a specified interval to turn into digital audio data. The numbers of sampling in one second defines as sampling frequency. The higher the rate, the better the sound quality.

Secondary Audio

The audio signals recorded in the BONUSVIEW of BD-Video. (e.g. Comment of movie director)

Subnet Mask

A mask which is used to determine what subnet an IP address belonas to.



Title

This is the unit of content that consists of chapters of BD or DVD-Video. Some BD or DVD-Video may include multiple titles.



Virtual Package

The function which copies data to other media (local storage) from the Internet and play the secondary video, secondary audio and the subtitle at the same time. The method of the playback varies depending on discs.

W

Windows Media[™] Audio

Windows Media[™] Audio is the audio compressing technology developed by Microsoft. You can copy Windows Media[™] Audio files on disc or SD Memory Card from a computer and play them back on this unit.



x.v.Color

"x.v.Color" is a promotion name given to the products that have the capability to realize a wide color space based on the xvYCC specifications and is a trademark of Sony Corporation.

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Others

Troubleshooting

If the unit does not perform properly when operated as instructed in this user guide, check the unit, consulting the following checklist.

n	Troubleshooting					
Introduction		operly when operated as instructed in this user guide, checl				
L L	Problem	Solution	Page			
tion	No power	 Check if the AC cord is properly connected. Unplug the AC cord once, and wait for 5-10 seconds and then plug it in again. 				
Connections	No sound or picture	 Check if the connected display device is turned on. Check the HDMI connection. (Check the status of the HDMI related indications.) Check the RCA audio/video cable connections. Check if the pure direct mode is set to "VideoOff" or "All Off". If it is the case, set it to "Disp.Off" or "Normal". Check whether the connected display device or other device supports HDCP. (This unit will not output a video signal unless the other device supports HDCP.) Check whether the output format of this unit (HDMI FORMAT) matches the supported input format of other connected device. Check if the "HDMI Deep Color" is set to "Auto". If it is the case, set it 	12 12, 15 25 14 12, 31, 32 32			
Playback	Distorted picture	 to "Off". Sometimes a small amount of picture distortion may appear. This is not a malfunction. Connect this unit directly to the TV. If the RCA audio/video cables are connected to a VCR, pictures may be distorted due to the copy protection system. 	- 12			
	Completely distorted picture or black/white picture with BD/DVD	- Make sure the disc is compatible with this unit.	4			
Funct	No sound or distorted sound	 Adjust the volume. Check that the speakers are connected correctly. Check the HDMI connections. Check the "Audio" settings. 	- 12, 14, 15 12 33, 34			
Function Setup	Picture freezes momentarily during playback	 Check the disc for fingerprints/scratches and clean with a soft cloth wiping from center to edge. Clean the disc. 				
tup	Disc cannot be played back	 Clean the disc. Ensure the disc label is facing up. Check if the disc is defective by trying another disc. Cancel the ratings control or change the control level. Insert a correct disc that can be played back on this unit. 	3 17 - 36 4			
Others	SD Memory Card cannot be read	- The format of the card does not match to this unit or the card is not compatible.				
iers	No return to start-up screen when disc is removed	- Reset this unit by turning it off, then on again.				
	The unit does not respond to the remote control	 Aim the remote control directly at infrared sensor window on the front of the unit. Reduce the distance to infrared sensor window. Replace the batteries in the remote control. Re-insert the batteries with their polarities (+/- signs) as indicated. Make the signal code of the remote control match to the signal code of the unit. 	6 - 6 6 6			

Problem	Solution	Page		
Buttons do not work or the unit stops responding	 To completely reset the unit, unplug the AC cord from the AC outlet for 5-10 seconds. 	-		
The unit does not respond to some operating commands during playback	 Operations may not be permitted by the disc. Refer to the instructions of the disc. 	17		
The unit cannot read BD/DVD/CD	- Condensation? (Let sit 1 or 2 hours)	2		
	- You are attempting to play a disc other than one with one of the marks on page 4.	4		
	 Wipe the dirt off the disc or replace the disc. 	3		
Angle does not switch	 The angle cannot be switched for BD/DVD which do not contain multiple angles. In some cases multiple angles are only recorded for specific scenes. 			
Playback does not start when the title is selected	- Check the "Ratings" setting.	36		
The password for rating level has been forgotten	 Enter the default password "4737", then your forgotten password will be cleared. 	36		
Cannot connect to the network	 Check if the LAN cable connection is properly made. Turn on the modem or broadband router. 	15 -		
	 Check the network settings. 	39		
	 Check if the broadband router and/or modem is correctly connected. Check the "BD-Live Setting". 	15 41		
Cannot connect to the network while my PC is connected to the network	 Check the content of your Internet service contract to see if your Internet Service Provider prevents multiple terminals connecting at the same time. 	-		
Cannot use the BD-Live function	 Use an SD card with enough space. Remove the write protection of an SD card. 	-		
The playback of BD-Video or	- Check if an SD card is correctly inserted.	28		
download of data does not perform properly	 Do not remove the card during playback as some BD-Videos require an SD card during playback. 	29		
"HDCP NOK" appears on the front panel display	 "HDCP NOK" appears under the following conditions: When the connected device does not support HDCP. When the connected device is recognized as an HDCP incompatible by HDMI SRM. When the connected device supports HDCP but cannot be recognized as an HDCP compatible for some reason. 	10		

Note

- Some functions are not available in specific modes, but this is not a malfunction. Read the description in this user guide for details on correct operations.
- Some functions are prohibited on some discs.

Others

Others

Language Code

Language	Code	Language	Code	Language	Code	Language	Code	Language
A-B		Esperanto	5161	Kinyarwanda	6469	Quechua	6367	Tigrinya
Abkhazian	4748	Estonian	5166	Kirghiz	5771	Rhaeto-Romance	6459	Tonga
Afar	4747	F-H		Kirundi	6460	Romanian [RUM]	6461	Tsonga
Afrikaans	4752	Faroese	5261	Korean [KOR]	5761	Russian [RUS]	6467	Turkish [TUR]
Albanian	6563	Fiji	5256	Kurdish	5767	S		Turkmen
Amharic	4759	Finnish [FIN]	5255	L-N		Samoan	6559	Twi
Arabic	4764	French [FRE]	5264	Laothian	5861	Sangho	6553	U-Z
Armenian	5471	Frisian	5271	Latin	5847	Sanskrit	6547	Ukrainian
Assamese	4765	Galician	5358	Latvian;Lettish	5868	Scots Gaelic	5350	Urdu
Aymara	4771	Georgian	5747	Lingala	5860	Serbian	6564	Uzbek
Azerbaijani	4772	German [GER]	5051	Lithuanian	5866	Serbo-Croatian	6554	Vietnamese
Bashkir	4847	Greek [GRE]	5158	Macedonian	5957	Sesotho	6566	Volapuk
Basque	5167	Greenlandic	5758	Malagasy	5953	Setswana	6660	Welsh
Bengali;Bangla	4860	Guarani	5360	Malay	5965	Shona	6560	Wolof
Bhutani	5072	Gujarati	5367	Malayalam	5958	Sindhi	6550	Xhosa
Bihari	4854	Hausa	5447	Maltese	5966	Singhalese	6555	Yiddish
Bislama	4855	Hebrew	5569	Maori	5955	Siswat	6565	Yoruba
Breton	4864	Hindi	5455	Marathi	5964	Slovak [SLO]	6557	Zulu
Bulgarian [BUL]	4853	Hungarian [HUN]	5467	Moldavian	5961	Slovenian	6558	
Burmese	5971	I-K		Mongolian	5960	Somali	6561	
Byelorussian	4851	Icelandic [ICE]	5565	Nauru	6047	Spanish [SPA]	5165	
C-E		Indonesian	5560	Nepali	6051	Sundanese	6567	
Cambodian	5759	Interlingua	5547	Norwegian [NOR]	6061	Swahili	6569	
Catalan	4947	Interlingue	5551	O-R		Swedish [SWE]	6568	
Chinese [CHI]	7254	Inupiak	5557	Occitan	6149	Т		
Corsican	4961	Irish [IRI]	5347	Oriya	6164	Tagalog	6658	
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Czech [CZE]	4965	Japanese [JPN]	5647	Panjabi	6247	Tamil	6647	
Danish [DAN]	5047	Javanese	5669	Pashto;Pushto	6265	Tatar	6666	
Dutch [DUT]	6058	Kannada	5760	Persian	5247	Telugu	6651	
English [ENG]	5160	Kashmiri	5765	Polish [POL]	6258	Thai	6654	
		Kazakh	5757	Portuguese [POR]	6266	Tibetan	4861	

ENGLISH

Code

6655 6661

6665

6664 6657

6669

6861

4971 6961

U-Z

Note

• If you choose a language that has a 3-letter-language code (written in bracket), the code will be displayed every time you change the audio or subtitle language setting on pages 24-25. If you choose any other languages, '---' will be displayed instead.

Others

5	Specifications								
Introduction	SIGNAL SYSTEM NTSC color	ANALOG AUDIO OUTPUT Output level: 2Vrms (10kΩ/kohms) 2 channel (L, R) output connector: Pin jacks, 1 set AUDIO OUTPUT PROPERTIES							
ion	APPLICABLE DISCS (1) BD/DVD-Video Discs								
Connections	 1-layer 12cm single-sided discs, 2-layer 12cm single-sided discs, 2-layer 12cm double-sided discs (1 layer per side) / 1-layer 8cm single-sided discs (DVD) BD-RE/BD-R (Recorded in BDMV format) 1-layer 12cm single-sided discs, 2-layer 12cm single-sided discs 1-layer 8cm single-sided discs, 2-layer 12cm single-sided discs 1-layer 8cm single-sided discs, 2-layer 12cm single-sided discs DVD-R 1-layer 12cm single-sided discs, 2-layer 12cm single-sided discs DVD-R 1-layer 12cm single-sided discs, 2-layer 8cm single-sided discs 1-layer 12cm single-sided discs, 2-layer 12cm single-sided discs 1-layer 8cm single-sided discs, 2-layer 8cm single-sided discs (4) DVD-RW	 (1) Frequency response 1 BDs (linear PCM) 20Hz to 22kHz (48kHz sampling) 20Hz to 44kHz (96kHz sampling) 20Hz to 88kHz (192kHz sampling) 20Hz to 22kHz (48kHz sampling) 20Hz to 44kHz (96kHz sampling) 20Hz to 44kHz (96kHz sampling) 20Hz to 44kHz (96kHz sampling) 3 CDs 20Hz to 20kHz (2) S/N ratio 115dB (3) Total harmonic distortion 1kHz 0.004% (4) Dynamic range 100dB (BD/DVD) / 98dB (CD) 							
Playback	 1-layer 12cm single-sided discs 1-layer 8cm single-sided discs (5) Compact discs (audio CD) 12cm discs, 8cm discs (6) CD-RW/-R 12cm discs, 8cm discs 	(4) Dynamic range 1000B (BD/DVD)/ 980B (CD) DIGITAL AUDIO OUTPUT Coaxial digital output: Pin jack, 1 set POWER SUPPLY AC 120V, 60Hz							
Functi	APPLICABLE MEMORY CARDS (1) SD Memory Card (2) SDHC Memory Card (3) miniSD Card (4) microSD Card	30W (Standby: 0.6W)							
Function Setup	VIDEO OUTPUT Y output level: 1Vp-p (75Ω/ohms) Output connectors: Pin jack, 1 set	W : 440mm (17-3/8") H : 105mm (4-3/16") D : 324mm (12-13/16") (including protruding parts) MASS							
Others	COMPONENT OUTPUTY output level: 1Vp-p (75Ω/ohms)PB/CB output level: 0.7Vp-p (75Ω/ohms)PR/CR output level: 0.7Vp-p (75Ω/ohms)Output connectors: Pin jacks, 1 setHDMI OUTPUTOutput jack: 19-pin HDMI terminal, 1 setHDMI ver. 1.3a (Deep Color, Dolby Digital Plus, Dolby TrueHD, DTS-HD)	4.3 kg (9.5 lbs) REMOTE CONTROL RC004BD Infrared pulse type Supply: DC 3V, 2 R6/AA batteries External dimensions: W : 52mm (2-1/16") H : 227mm (8-15/16") D : 20mm (1.21/16")							
	NETWORK TERMINAL 10BASE-T/ 100BASE-TX, 1 set	D : 30mm (1-3/16") Mass: 138g (0.3 lbs) (including batteries)							

• For purposes of improvement, specifications and design are subject to change without notice.

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