ONKYO®

BLU-RAY DISC PLAYER

BD-SP808

Instruction Manual

Thank you for purchasing an Onkyo BLU-RAY DISC PLAYER. Please read this manual thoroughly before making connections and plugging in the unit.

Following the instructions in this manual will enable you to obtain optimum performance and listening enjoyment from your new BLU-RAY DISC PLAYER.

Please retain this manual for future reference.

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WARNING:

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



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



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 apparatus.

The caution marking is located on the rear or bottom of the cabinet.



The symbol for CLASS II (Double Insulation)

Caution

- 1. Do not attempt to open the cabinet. There are no parts you can service inside. Refer all servicing to qualified service personnel.
- 2. Slots and openings in the cabinet and the sides or bottom are provided for ventilation. To ensure reliable operation and to protect the unit from overheating, these openings must not be blocked or covered.
 - Avoid installation in enclosed spaces such as bookcases unless proper ventilation is provided.
- 3. Keep the unit away from radiators and other heat
- 4. Avoid use near strong magnetic fields.
- 5. Do not push objects of any kind into the unit through the cabinet slots or openings as they could touch electrically live parts or short circuit parts resulting in a fire or electric shock.
- 6. To prevent fire or shock hazard, do not expose this apparatus to dripping or splashing, no objects filled with liquids, such as vases, should be placed on the apparatus.
- 7. Do not stand the unit up vertically. Use this unit in a horizontal (flat) position only.
- 8. This product is in Stand-by mode when it turns off while the power cord is connected.
- 9. Do not place any combustible objects on the device (candles, etc.).
- 10. Before moving the unit, be sure to remove any discs and unplug the mains cable from the AC outlet.
- 11. Disconnect the mains plug to shut off when find trouble or not in use.
- 12. The mains plug shall remain readily operable.
- 13. Read the manual instructions to ensure correct and safe installation and interconnection of the unit in multimedia systems.
- 14. Keep the distances 20 cm around apparatus of ventilation openings.

Positioning

Do not place the unit directly on top of, or underneath, your TV set. Ensure that there is at least 20 cm between the unit and the TV set, and that air can circulate freely through the ventilation openings of the unit.

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.

A Note about Recycling

This product's packaging materials are recyclable and can be reused. Please dispose of any materials in accordance with your local recycling regulations. This product consists of materials which can be recycled and reused if disassembled by a specialised company.

Following information is only valid **EU-member States:** Disposal of batteries and/or accumulators

The crossed out wheeled dust bin symbol indicates that batteries and/or accumulators must be collected and disposed of separately from household waste.

If the battery or accumulator contains more



Pb, Hg, Cd

than the specified values of lead (Pb), mercury (Hg), and/or cadmium (Cd) defined in the Battery Directive (2006/66/EC), then the chemical symbols for lead (Pb), mercury (Hg) and/or cadmium (Cd) will appear below the crossed out wheeled dust bin symbol.

By participating in separate collection of batteries, you will help to assure the proper disposal of products and batteries and thus help to prevent potential negative consequences for the environment and human health. For more detailed information about the collection and recycling programmes available in your country, please contact your local city office or the shop where you purchased the product.

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

4. Power

WARNING

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

AC outlet voltages vary from country to country. Make sure that the voltage in your area meets the voltage requirements printed on the unit's rear panel (AC110-240V, 50 / 60Hz).

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

5. Preventing Hearing Loss

Caution

Excessive sound pressure from earphones and headphones can cause hearing loss.

6. Batteries and Heat Exposure

Warning

Batteries (battery pack or batteries installed) shall not be exposed to excessive heat as sunshine, fire or the like.

7. Never Touch this Unit with Wet Hands—

Never handle this unit or its power cord while your hands are wet or damp. If water or any other liquid gets inside this unit, have it checked by your Onkyo dealer.

8. Handling Notes

- If you need to transport this unit, use the original packaging to pack it how it was when you originally bought it.
- Do not leave rubber or plastic items on this unit for a long time, because they may leave marks on the case.

- This unit's top and rear panels may get warm after prolonged use. This is normal.
- If you do not use this unit for a long time, it may not work properly the next time you turn it on, so be sure to use it occasionally.
- When you've finished using this unit, remove all discs and turn off the power.

9. Installing this Unit

- Install this unit in a well-ventilated location.
- Ensure that there's adequate ventilation all around this unit, especially if it's installed in an audio rack. If the ventilation is inadequate, the unit may overheat, leading to malfunction.
- Do not expose this unit to direct sunlight or heat sources, because its internal temperature may rise, shortening the life of the optical pickup.
- Avoid damp and dusty places, and places subject to vibrations from loudspeakers.
- Never put the unit on top of, or directly above a loud-speaker.
- Install this unit horizontally. Never use it on its side or on a sloping surface, because it may cause a malfunction.
- If you install this unit near a TV, radio, or VCR, the picture and sound quality may be affected. If this occurs, move this unit away from the TV, radio, or VCR.
- 10.To Obtain a Clear Picture—This unit is a hightech, precision device. If the lens on the optical pickup, or the disc drive mechanism becomes dirty or worn, the picture quality may be affected. To maintain the best picture quality, we recommend regular inspection and maintenance (cleaning or worn part replacement). Contact your Onkyo dealer.

11. Moisture Condensation

Moisture condensation may damage this unit.

Read the following carefully:

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

- Moisture condensation can occur in the following situations:
- The unit is moved from a cold place to a warm place.
- A heater is turned on, or cold air from an air conditioner is hitting the unit.
- In the summer, when this unit is moved from an air conditioned room to a hot and humid place.
- The unit is used in a humid place.

 Do not use this unit when there's the possibility of moisture condensation occurring. Doing so may damage your discs and certain parts inside this unit.

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

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

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

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

CAUTION:

VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS FAILED OR DEFEATED. DO NOT STARE INTO BEAM.

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

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



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

For European Models

Declaration of Conformity

We, ONKYO EUROPE ELECTRONICS GmbH LIEGNITZERSTRASSE 6, 82194 GROEBENZELL, GERMANY



declare in own responsibility, that the ONKYO product described in this instruction manual is in compliance with the corresponding technical standards such as EN60065, EN55013, EN55020 and EN61000-3-2, -3-3.

GROEBENZELL, GERMANY



ONKYO EUROPE ELECTRONICS GmbH

Supplied Accessories

Remote Control with R6 (1.5V) battery x 2







RCA audio/video cables

Instruction Manual



Quick Start Guide



Instruction Manual (CD-ROM)



Note about Recycling

- This unit's packaging materials are recyclable and can be reused. Please dispose of any materials in accordance with your local recycling regulations.
- Batteries should never be thrown away or incinerated but disposed of in accordance with your local regulations concerning chemical wastes.

Maintenance

Servicing

- Please refer to relevant topics on "TROUBLESHOOTING" on page 56 before returning the product.
- If this unit becomes inoperative, do not try to correct the problem by yourself. There are no user-serviceable parts inside. Turn the unit to the standby mode, unplug the power plug, and contact your Onkyo dealer.

Disc handling

 For best results, keep your discs clean. Fingerprints and dust can affect the sound and picture quality and should be removed as follows. Using a clean, soft cloth, wipe from the centre outwards, as shown. Never wipe in a circular direction.







- To remove stubborn dust or dirt, wipe the disc with a damp, soft cloth, and then dry it with a dry cloth.
- Never use solvent-based cleaning fluids, such as thinner or benzine, commercially available cleaners, or antistatic sprays intended for vinyl records, because they may damage the disc.

IR signal check

 If the remote control is not working properly, you can use a digital camera (including a cellular phone with built-in camera) to see if it is sending out an infrared signal.

With a digital camera (including built-in cell phone cameras):

Point a digital camera towards the remote control. Push any button on the remote control and look through the digital camera. If the infrared light appears through the camera, the remote control is working.



Copyright

 It is forbidden by law to copy, broadcast, show, broadcast on cable, play in public, or rent copyrighted material without permission. Commercial BD-video/DVD-video discs are copy-protected, and any recordings made from these discs will be distorted. This item incorporates copy protection technology that is protected by U.S. patents and other intellectual property rights of Rovi Corporation. Reverse engineering and disassembly are prohibited.

Note about AC Cord

- · Use only the supplied AC cord.
- Do not use the supplied AC cord to other units.

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"AVCHD" and the "AVCHD" logo are trademarks of Panasonic Corporation and Sony Corporation.



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FEATURES

Features

Full high-definition video playback

Watch movies in the highest picture quality available for your HDTV. This unit offers full high-definition video playback up to 1080p resolution for an amazing viewing experience. A highly detailed picture and increased sharpness delivers a more trueto-life picture.

DVD upscaling for enhanced picture quality

Your current DVD will look even better than before thanks to video upconversion. Upconversion will increase the resolution of standard definition DVD to high definition up to 1080p over an HDMI connection. The picture will be less jagged and more realistic for a near high definition experience.

Enjoy your content on different kinds of media

Full backwards compatibility with DVD, CD and SD card ensures that you can continue to enjoy your current audiovideo collection. Additionally, you can enjoy DivX® / MP3 / WMA / JPEG files.

Listen to the rich multi-channel surround sound

Multi-channel surround sound, which recognises real-to-life sound and makes you feel like you are really there.

Easy and simple connection to your HDTV via HDMI

Connect this unit to your HDTV with one single HDMI (High-Definition Multimedia Interface) cable. It is recommended to use High Speed HDMI cable for better compatibility. The high definition video output signal will be transferred to your HDTV without conversion to analogue signals, so you will get excellent picture and sound quality, completely free from noise.

Thanks to other multiple outputs, you can also easily connect to your home theatre system or amplifier.

HDMI CEC (Consumer Electronics Control)

This unit supports HDMI CEC, which allows integrated system control over HDMI and is part of the HDMI standard. Onkyo does not guarantee 100% interoperability with other brands of HDMI CEC compliant devices.

PIP (BONUSVIEW)

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

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.

Pop-up menu

Some BD-videos have a pop-up menu which is a navigation menu that can be called up and be operated on the TV screen without interrupting playback. You can call up the pop-up menu by pressing [POP UP MENU/MENU]. Contents in the pop-up menu vary depending on the disc.

Rapid playback

Playback in slightly faster speed while keeping the sound output.

Rapid playback is available only on discs recorded in the Dolby Digital format.

HDMI Deep Color

Deep Color reduces posterisation effect of the playback image. Refer to "HDMI Deep Color" in "FUNCTION SETUP" on page 43.

HDMI 1080p24 output (BD only)

This unit is equipped with the feature which can provide the smooth movement during playback of film originated material with the frame rate of 24 frames per second with progressive. (Available only when the display device is connected by an HDMI cable.)

Refer to "HDMI Video Resolution" in "FUNCTION SETUP" on page 42.

Playing back the contents from an SD Memory Card

You can play back AVCHD/MP3/WMA and JPEG stored in an SD Memory Card. BD-ROM Profile 2.0 (BD-Live) and Profile 1.1 discs sometimes store picture-in-picture commentary, subtitles or other extras in the SD Memory Card for use during playback with the BD-video.

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.

Playing Back DivX® / DivX® HD File

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

x.v.Coloi

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 colour space setting is required. Please refer to the owner's manual of your display device for further information.

Enjoy contents stored on DLNA certified home media servers

This unit is a DLNA certified media player that can play video, music and photo files stored on DLNA certified home media servers connected to your home network.

FEATURES

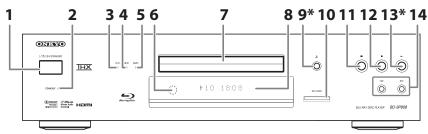
Symbols Used in this Manual

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
CD	Description refers to audio CD / 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 DivX® files
MP3	Description refers to BD-RE/-R, DVD-RW/-R, CD-RW/-R and SD card with MP3 files
WMA	Description refers to BD-RE/-R, DVD-RW/-R, CD-RW/-R and SD card with Windows Media™ Audio files
JPEG	Description refers to BD-RE/-R, DVD-RW/-R, CD-RW/-R and SD card with JPEG files
DLNA	Description refers to video files in the DLNA home server
DLNA	Description refers to music files in the DLNA home server
DLNA	Description refers to photo files in the DLNA home server

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

Front Panel



(*) The unit can also be turned on by pressing these buttons.

1. I/也 ON/STANDBY button

 Press to turn on the unit, or to turn the unit into the standby mode. (To completely shut down the unit, you must unplug the AC power cord)

2. STANDBY indicator

 This indicator lights up in red when the unit is in standby mode and turns off when the unit is active.

3. CD indicator

• This indicator lights up in green when a CD is inserted.

4. BD indicator

 This indicator lights up in blue when a Blu-ray Disc is inserted.

5. DVD indicator

· This indicator lights up in orange when a DVD is inserted.

6. Infrared sensor window

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

7. Disc tray

• Place a disc when opening the disc tray.

8. Display

• Refer to "Front Panel Display" on page 13.

9. ▲ (open/close) button*

Press to open or close the disc tray.

10. SD CARD slot

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

11. II (pause) button

• Press to pause playback.

12. **■** (stop) button

• Press to stop playback.

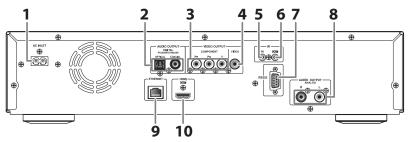
13. ► (play) button*

Press to start or resume playback.

14. |◀◀/▶▶| (skip down/up) buttons

 Press to skip to the previous or next title / chapter / track / file.

Rear Panel



1. AC INLET terminal

Use to connect the AC outlet with the AC cord.

2. AUDIO OUTPUT (DIGITAL OPTICAL/COAXIAL) jacks

 Use to connect an AV receiver / amplifier, Dolby Digital / DTS decoder or other device with a digital audio optical/coaxial input jack with a digital audio optical/coaxial cable.

3. VIDEO OUTPUT (COMPONENT) jacks

 Use to connect a TV or AV receiver with component video inputs with an RCA component video cable.

4. VIDEO OUTPUT (VIDEO) jack

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

5. IR IN jack

 A commercially available IR receiver can be connected to the IR IN jack, allowing you to control the BD player when it's out of sight, for example, installed in a cabinet.

6. IR OUT jack

 A commercially available IR emitter can be connected to the IR OUT jack to pass IR (infrared) remote control signals along to other components.

7. CONTROL CONNECTOR (RS-232)

 This bidirectional RS-232 port can be connected to an external controller.

8. AUDIO OUTPUT (ANALOG) jacks

 Use to connect a TV, an AV receiver / amplifier or other device with an RCA audio cable.

9. ETHERNET terminal

Use to connect a telecommunications equipment with LAN cable.

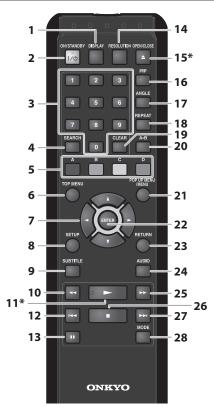
10.HDMI OUT jack

 Use to connect a TV, an AV receiver / amplifier or other device with an HDMI compatible port with an HDMI cable.

Note

- Do not touch the inner pins of the jacks on the rear panel. Electrostatic discharge may cause permanent damage to the unit.
- This unit does not have the RF modulator.

Remote Control



(*) The unit can also be turned on by pressing these buttons.

1. DISPLAY button

• Press to display the on-screen display menu.

2. ON/STANDBY I/6 button

 Press to turn on the unit, or to turn the unit into the standby mode. (To completely shut down the unit, you must unplug the AC power cord)

3. Number buttons

- Press to enter the title, chapter, track or file number.
- Press to enter values in the input field.

4. SEARCH button

• Press to display the search menu.

5. A/B/C/D button

- Press to select items on some BD menus.
- When file list / thumbnail list is shown, press to switch between pages.

6. TOP MENU button

- Press to display the top menu.
- During DLNA home media server feature screen is displayed (except during playback), press to exit.

7. **▲** / **▼** / **♦** buttons

Press to select items or settings.

8. SETUP button

• Press to display the setup menu.

9. SUBTITLE button

• Press to display the subtitle menu.

10. ◀◀ (reverse) button

• During playback, press to fast reverse the playback.

11. ► (play) button*

• Press to start playback or resume playback.

12. |◀◀ (skip) button

- During playback, press once to return to the beginning of the current title, chapter, track or file.
- During playback, press twice to return to the previous title, chapter, track or file.
- During the JPEG playback, press to return to the previous file.

13. II (pause) button

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

14. RESOLUTION button

· Press to set the HDMI output mode.

15. OPEN/CLOSE ▲ button*

• Press to open or close the disc tray.

16. PIP button

 During BD playback, press to display the setting for the picture-in-picture (only applicable to BD-video which supports the PIP function).

17. ANGLE button

- Press to access various camera angles on the disc.
- Press to rotate the JPEG files clockwise by 90 degrees.

18. REPEAT button

• Press to toggle between various repeat modes.

19. CLEAR button

• Press to clear the information once entered, or to cancel the programming for audio CD, etc.

20. A-B button

 Press to play back a defined section between point A and B repeatedly.

21. POP UP MENU/MENU button

• Press to display the pop-up menu / disc menu.

22. ENTER button

• Press to confirm or select menu items.

23. RETURN button

• Press to return to the previously displayed menu screen.

24. AUDIO button

• Press to display the audio menu.

25. ▶▶ (forward) button

- During playback, press to fast forward the playback.
- In pause mode, press to slow forward the playback.

26. **■** (stop) button

· Press to stop playback.

27. ▶▶| (skip) button

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

28. MODE button

- During BD, DVD or AVCHD files playback, press to display the setting for the rapid playback and the picture adjustment.
- During BD playback, press to display the setting for the picture-in-picture (only applicable to BD-video which supports the PIP function).
- 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.
- In stop mode with audio CD, a disc with MP3, WMA or JPEG files inserted, press to display menus for programme and random playback.

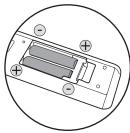
Installing the Batteries in the Remote Control

Install 2 R6 (1.5V) batteries matching the polarity indicated inside battery compartment of the remote control.

1) Open the cover.

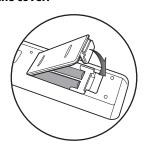


2) Insert batteries.



Make sure to match + and - on the batteries to the marks indicated in the battery compartment.

3) Close the cover.



Note

Incorrect use of batteries can result in hazards such as leakage and bursting. Please observe the following:

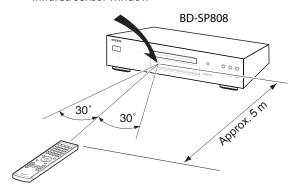
- Do not mix new and old batteries together.
- Do not use different kinds of batteries together.
 Although they may look similar, different batteries may have different voltages.
- Make sure that the + and ends of each battery match the indications in the battery compartment.
- Remove batteries from battery compartment that is not going to be used for a month or more.
- When disposing of used batteries, please comply with governmental regulations or environmental public instruction's rules that apply in your country or area.
- Do not recharge, short-circuit, heat, burn or disassemble batteries.

Using a Remote Control

Keep in mind the following when using the remote control:

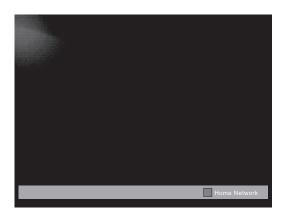
- Make sure that there are no obstacles between the remote control and the infrared sensor window on the unit.
- Remote operation may become unreliable if strong sunlight or fluorescent light is shining on the infrared sensor window of the unit.
- Remote control for different devices can interfere with each other. Avoid using remote control for other device 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.

Infrared sensor window



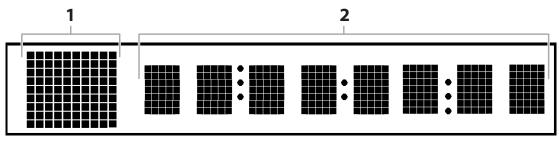
Opening Screen

In stop mode and "Mode Select" is set to "Network", opening screen is displayed.



"Home Network": To access the list of DLNA home server

Front Panel Display



^{*} Brightness of the display can be adjusted. Refer to "Panel Display" in "FUNCTION SETUP" on page 49.

- 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	Midde	
Þ	Ð	Playback is in progress	
		Stop mode	
ii		Pause mode	
*		Fast forward mode	
444	#	Fast reverse mode	
Þ	(for AVCHD only)	Slow forward mode	
	<u>_</u>	Appears while repeat function is set	
	*	Appears when DLNA home media server is active	

Example of Display Message

DTS

back.

Title is being played back. Indicating the current title number and the elapsed time.

LOADING

Loading a disc.

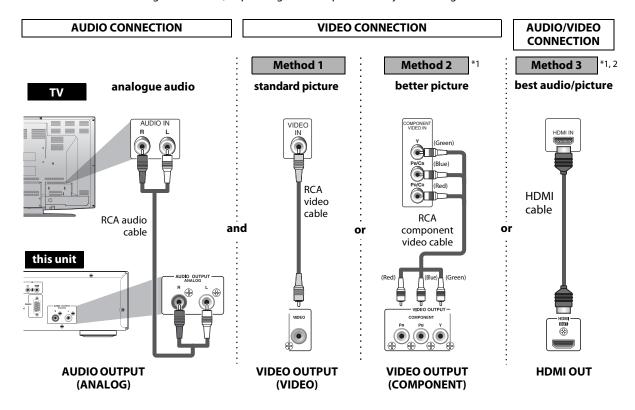
Loading a disc.

Dolby Digital audio is being played back.

DTS audio is being played

Connection to the TV

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



- *1) This unit is compatible with the progressive scan system. The feature provides you with the higher quality pictures than traditional output system does. To utilise this feature, a component or an HDMI connection is required. Refer to "HDMI Video Resolution" or "Component Output" setting on pages 42-43 to set the video resolution.
- *2) Analogue audio connection is not required for this connection.
 - High Speed HDMI cable (also known as HDMI category 2 cable) is recommended for better compatibility.
 - Use an HDMI cable with the HDMI logo (a certified HDMI cable) for this connection.

Supplied cables used in this connection are as follows:

- RCA audio cable (L/R) x 1
- RCA video cable x 1

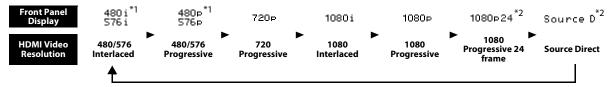
Please purchase the rest of the necessary cables at your local store.

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 picture is not output properly to the TV because of "HDMI Video Resolution" or "Component Output" setting, press and hold [(play)] on the front panel for more than 5 seconds. "HDMI Video Resolution" and "Component Output" setting will be reset to the default automatically. You cannot change the video resolution during Blu-ray Disc playback. To change the resolution, stop playback.
- A simple 1-cable connection with a device having an HDMI (High-Definition Multimedia Interface) jack allows digital transfer of both digital video signals and multi-channel audio signals.

HDMI Output Mode and Actual Output Signals

Press [**RESOLUTION**] to change the resolution of the video signal being output from HDMI OUT jack. The video resolution changes as follows every time [**RESOLUTION**] is pressed.



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 TV (or an AV receiver) 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 operating instructions of your TV (or AV receiver) for more information.

Note

- When using HDCP-incompatible TV, the image will not be viewed properly.
- The audio signals from HDMI OUT jack (including the sampling frequency, the number of channels and bit length) maybe limited by the device that is connected.
- Among the devices 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 HDMI OUT jack.
- 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" setting in "Video" menu. In this menu, you can confirm what HDMI video resolutions are supported by connected TV. Refer to page 42.
- You can change the HDMI output mode with [RESOLUTION] during playback as well. (This is not available during BD/AVCHD playback.)
- 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.
- If the disc contains 1080p24 frame material, 60-frame or 50-frame image will be output unless "1080p24" is selected.
- 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/576i" 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 [RESOLUTION] or press and hold [▶ (play)] 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.

HDMI Audio Setting

When using HDMI connections make "HDMI Audio Out" setting in "Audio" menu according to the specifications of the device to be connected. Refer to page 44.

Device to be connected	"HDMI Audio Out" setting	Output HDMI audio signal
Device compatible with Dolby Digital, Dolby Digital Plus, Dolby TrueHD, DTS or DTS-HD decoding	HDMI Multi(Normal)	Dolby Digital, Dolby Digital Plus, Dolby TrueHD, DTS, or DTS-HD bitstream are output from HDMI OUT jack. Make the speaker settings on the connected AV amplifier, etc.
Device compatible with 3 or more channels of audio inputs (not Dolby Digital, Dolby Digital Plus, Dolby TrueHD, DTS or DTS-HD compatible)	HDMI Multi(LPCM)	Multi-channel audio signals are output from HDMI OUT jack. Make the speaker settings with the speaker setting items appear after you select "HDMI Multi(LPCM)". Refer to page 44.
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 jack.
HDMI connection to a TV, and digital audio connection (coaxial/optical) to an AV amplifier	Audio Mute	HDMI audio will be muted, and Dolby Digital / DTS bitstream or LPCM will be output from AUDIO OUTPUT (DIGITAL OPTICAL/COAXIAL) jacks depending on "Digital Out" setting. Refer to page 45.

 $^{^{*1)}}$ "480i" and "480p" will be displayed only when an NTSC disc or a1080p24 frame material is being played back.

^{*2)} Even if "HDMI Video Resolution" is set to "Source Direct", HDMI video resolution will be changed when your TV is not compatible with the video resolution of a disc material.

■ Audio signals output from HDMI OUT jack

	"HDMI Audio Out" setting →	"HDMI Multi(Normal)"		"HDMI Multi(LPCM)"		"HDMI 2ch"	
	"BD Audio Mode" setting →	"HD Audio Output"	"Mix Audio Output"	"HD Audio Output"	"Mix Audio Output"	"HD Audio Output"	"Mix Audio Output"
Media ▼	Audio Source	Which audio for	Which audio format can be output depends on the compatibility o				device.
	Dolby Digital	Dolby Digital	Dolby Digital	Multi PCM	Multi PCM	Downmix 2ch PCM	Downmix 2ch PCM
	Dolby Digital Plus	Dolby Digital Plus	Dolby Digital	Multi PCM*1	I I Multi PCM ^{*2} I	Downmix 2ch PCM ^{*1}	Downmix 2ch PCM ^{*2}
BD-video	Dolby TrueHD	Dolby TrueHD	Dolby Digital	Multi PCM ^{*3}	I Multi PCM ^{*4}	Downmix 2ch PCM ^{*3}	Downmix 2ch PCM ^{*4}
DD-Video	DTS®	DTS®	DTS®	Multi PCM ^{*6}	Multi PCM ^{*6}	Downmix 2ch PCM	Downmix 2ch PCM
	DTS-HD®	DTS-HD®	DTS®	Multi PCM*1,6	I I Multi PCM ^{*5, 6} I	Downmix 2ch PCM ^{*1}	Downmix 2ch PCM ^{*5}
	LPCM	Multi LPCM	Multi PCM	Multi PCM	I I Multi PCM	Downmix 2ch PCM	Downmix 2ch PCM
	Dolby Digital	Dolby Digital		Multi PCM		Downmix 2ch PCM	
DVD-video	DTS®	DT	S®	Multi	PCM	Downmix	2ch PCM
DVD-video	LPCM	2ch PCM		2ch PCM		2ch	PCM
	MPEG	MP	EG	Multi PCM		Downmix 2ch PCM	
Audio CD	PCM	2ch l	PCM	2ch PCM		2ch PCM	
DTS-CD	DTS®	DT	S®	Multi PCM		Downmix 2ch PCM	
AVCHD	Dolby Digital	Dolby	Digital	Multi PCM		Downmix 2ch PCM	
AVCHD	LPCM	Multi	PCM	Multi PCM		Downmix 2ch PCM	
DivX®	Dolby Digital	Dolby	Digital	Multi PCM		Downmix 2ch PCM	
DIVA	PCM	2ch l	PCM	2ch PCM		2ch PCM	
MP3	MP3	2ch PCM		2ch PCM		2ch PCM	
WMA	WMA	2ch PCM		2ch PCM		2ch PCM	
DINA	Dolby Digital	Dolby Digital		Multi PCM		Downmix 2ch PCM	
DLNA Video	MP2	2ch	PCM	2ch PCM		2ch PCM	
Tideo	LPCM	Multi	PCM	Multi PCM		Downmix 2ch PCM	
DLNA Music	MP3/WMA/LPCM	2ch PCM		2ch PCM		2ch PCM	

^{*1} Full decoded.

- If the connected device is not compatible with the HDMI BITSTREAM, audio will be output as multi LPCM or 2-channel down-mixed LPCM depending on the capability of the connected device even if you select "HDMI Multi(Normal)" in "HDMI Audio Out" setting. Refer to page 44.
- If the connected device is not compatible with AAC, audio will be output as PCM depending on the capability of the connected device.
- When playing back a BD-video which only contains the primary audio, the audio output will be the same case as the "HD Audio Output" even if the "BD Audio Mode" is set to "Mix Audio Output".

Note

- The audio signals from HDMI OUT jack (including the sampling frequency, the number of channels and bit length) maybe limited by the device that is connected.
- Among the devices 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 HDMI OUT jack.
- Video and audio signals may be distorted temporarily when switching to / from the HDMI output mode.

^{*2} Only the independent substream is decoded.

^{*3} Dolby TrueHD stream is decoded.

^{*4} Only the Dolby Digital substream is decoded.

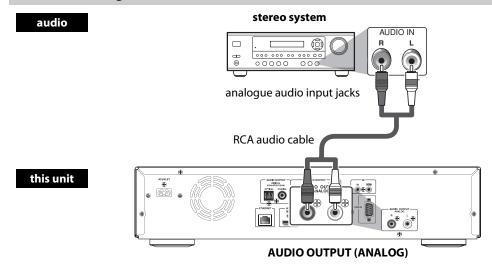
^{*5} Only the core substream is decoded.

^{*6} When audio source is multi-channel, decoded as 7.1ch. However, number of the output audio channel will depend on the number of the connected speakers.

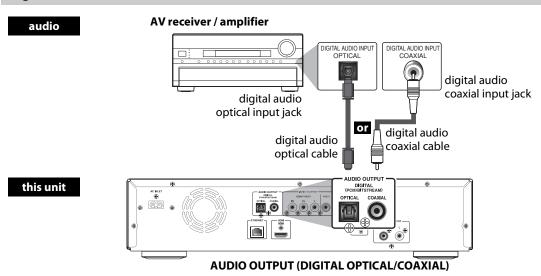
Connection to an Audio System

- When you change the connections, all devices should be turned off.
- Refer to the manual accompanying external devices for more information.

2-Channel Analogue Audio Connection



Digital Audio Connection



Supplied cables used in these connections are as follows:

• RCA audio cable (L/R) x 1

Please purchase the rest of the necessary cables at your local store.

Note for Digital Audio Optical Cable

- Digital audio optical cable may be damaged when bent at sharp angles. Ensure cables are coiled in loops with a diameter of 15cm or more when storing them.
- Use a cable which is 3m or shorter.
- Insert cable plugs firmly into the connectors when making connections.
- If a plug has dust or is dirty, clean it with a soft cloth before inserting it into a connector.

■ Audio signals output from AUDIO OUTPUT (DIGITAL OPTICAL/COAXIAL) jacks

For the settings in the "Digital Out" to take effect, "HDMI Audio Out" should be set to "Audio Mute". Otherwise, the settings made in the "HDMI Audio Out" will have a priority, and the same signal as being output from the HDMI OUT jack will be output from the AUDIO OUTPUT (DIGITAL OPTICAL/COAXIAL) jacks as well. (Except that Dolby Digital will be output instead of Dolby Digital Plus and Dolby TrueHD, and DTS signal will be output instead of DTS-HD.)

	"Digital Out" setting →	"Bitstream"		"LP	CM"	
	"BD Audio Mode" setting →	"HD Audio Output"	"Mix Audio Output"	"HD Audio Output"	"Mix Audio Output"	
Media ▼	Audio Source	Which audio format car	the compatibility of the	connected device.		
	Dolby Digital	Dolby Digital	Dolby Digital	Downmix 2ch PCM	Downmix 2ch PCM	
	Dolby Digital Plus	Dolby Digital	Dolby Digital	Downmix 2ch PCM*1	Downmix 2ch PCM*2	
BD-video	Dolby TrueHD	Dolby Digital	Dolby Digital	Downmix 2ch PCM*3	Downmix 2ch PCM*4	
BD-video	DTS®	DTS®	DTS®	Downmix 2ch PCM	Downmix 2ch PCM	
	DTS-HD®	DTS®	DTS®	Downmix 2ch PCM*1	Downmix 2ch PCM*5	
	LPCM	Downmix 2ch PCM	Downmix 2ch PCM	Downmix 2ch PCM	Downmix 2ch PCM	
	Dolby Digital	Dolby	Digital	Downmix 2ch PCM		
DVD-video	DTS®	DT	-S®	Downmix 2ch PCM		
DVD-video	LPCM	2ch	2ch PCM		2ch PCM	
	MPEG	MF	MPEG		Downmix 2ch PCM	
Audio CD	PCM	2ch	2ch PCM		2ch PCM	
DTS-CD	DTS®	DT	-S®	Downmix 2ch PCM		
AVCHD	Dolby Digital	Dolby	Digital	Downmix 2ch PCM		
AVCIID	LPCM	Downmix	2ch PCM	Downmix 2ch PCM		
DivX®	Dolby Digital	Dolby	Digital	Downmi	x 2ch PCM	
DIVX	PCM	2ch	PCM	2ch	PCM	
МР3	MP3	2ch	PCM	2ch	PCM	
WMA	WMA	2ch	PCM	2ch	PCM	
2111	Dolby Digital	Dolby	Digital	Downmi	x 2ch PCM	
DLNA Video	MP2	2ch PCM		2ch PCM		
	LPCM	Downmix	2ch PCM	Downmix 2ch PCM		
DLNA Music	MP3/WMA/LPCM	2ch	PCM	2ch	PCM	

^{*1} Full decoded.

- When playing back a BD-video which only contains the primary audio, the audio output will be the same case as the "HD Audio Output" even if the "BD Audio Mode" is set to "Mix Audio Output".
- If the connected device is not compatible with AAC, audio will be output as PCM depending on the capability of the connected device.

Note

• In order to output LPCM signal from AUDIO OUTPUT (DIGITAL OPTICAL/COAXIAL) jacks while outputting the HDMI audio signal, set "HDMI Audio Out" setting to "HDMI Multi(LPCM)".

^{*2} Only the independent substream is decoded.

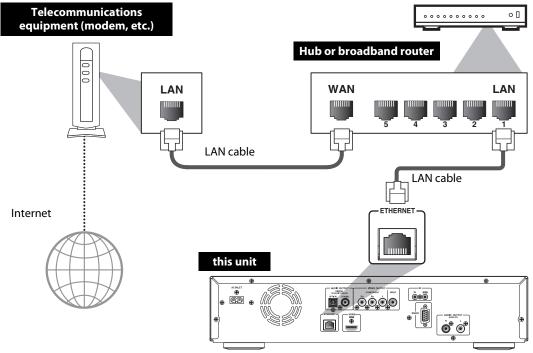
^{*3} Dolby TrueHD stream is decoded.

^{*4} Only the Dolby Digital substream is decoded.

^{*5} Only the core substream is decoded.

Network Connection with LAN

- · By connecting this unit to the Internet, you can update the software via the Internet, play contents stored on DLNA home media servers or access BD-Live.
- For more information about software update, refer to "Network Update" on page 54.
- For more information about DLNA, refer to "Playing Video / Music / Photo Files from DLNA Certified Home Media Servers" on page 30.
- For more information about BD-Live, refer to "Enjoying BD-Live Discs with Internet" on page 35.



Make sure to connect the telecommunications equipment (modem, etc.) to the ETHERNET terminal via hub or broadband router.

No supplied cables are used in this connection:

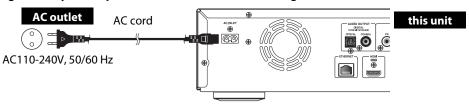
Please purchase the necessary cables at your local store.

Note

- · After connecting to the Internet, set up necessary network settings.
- Do not insert any cable other than a LAN cable to the ETHERNET 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, use a hub.
- For a broadband router, use a router which supports 10BASE-T/100BASE-TX.
- Do not connect your PC directly to the ETHERNET terminal of this unit.
 For the network setup, refer to "Network Connection" on pages 51-54.
- For more information about cables or connections, see the manual accompanying modem, broadband router and hub vou use.
- Please purchase shielded LAN cables at your local store and use them when you connect to network equipment.

Connecting the AC Cord

After you made all necessary connections, connect the AC cord to the AC INLET. Then connect the AC cord to the AC outlet. Insert the plugs securely. Incomplete connections will result in the generation of noise.

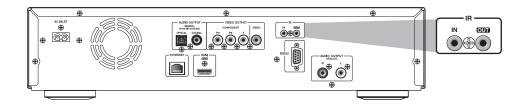


Supplied cables used in this connection are as follows: AC cord x 1

Controlling AV Components that are Out of Range

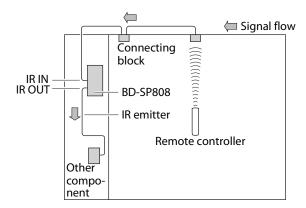
You can use the following multi-room kits to control the BD-SP808 when it's out of range of the remote controller:

• Multiroom kits such as those made by Niles and Xantech.

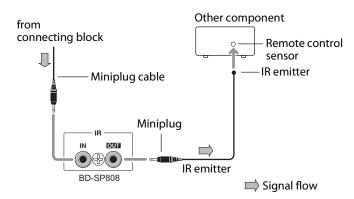


Controlling Other Out-of-Range AV Components

If another AV component is out of range of its remote controller, you can use a commercially available IR emitter to retransmit the remote controller signals received at the BD-SP808's IR IN jack, as shown below.



Connect the IR emitter to the BD-SP808's IR OUT jack, and place the IR emitter in front of the other AV component's remote control sensor (usually located on its front panel), as shown below. See the instructions supplied with the IR emitter.



Only remote controller signals received by the BD-SP808's IR IN jack are fed through to the IR OUT jack. Signals picked up by the BD-SP808's remote control sensor are not output.

Before you start playing back a disc, read the following information.

Playable Discs and Files

This unit is compatible to play back the following discs / files.

To play back a disc / file, make sure that it meets the requirements for region codes as described on the back cover and colour systems as described below. You can play back discs that have the following logos.

Other disc types are not guaranteed to play back.

Playable discs	Log	jos	
Blu-ray Disc - BD-video (single / dual layer) - BD-RE* (ver. 2.1) (single / dual layer) (recorded in BDMV format) - BD-R (ver. 1.1/ 1.2/ 1.3) (single / dual layer) (recorded in BDMV format) (Unclosed discs may not be played back.)	Blurra	O y Disc	
DVD-video	VID	P	
DVD-RW (single layer) (finalised video mode discs only)	R		_
DVD-R (single/dual layer) (finalised video mode discs only)	D _R		_
CD-DA (audio CD)	DIGITAL	MPACT C SUDIO	_
CD-RW	DIGITAL AUDIO ReWritable	COMPACT ReWritable	_
CD-R	DIGITAL AUDIO Recordable	COMPACT	* Due to the intentional progression of the Blu-ray Disc format by its standard setting authority, the company guarantee
DTS-CD	-		 or warrant the playability of future extensions of the Blu-ray Disc format with this product.

Disc/Card/Media Type						
File type/ Disc format/ Data	BD-R	BD-RE	DVD-R/-RW	CD-R/-RW	SD Memory Card (8MB - 2GB) SDHC Memory Card (4GB - 8GB) miniSD Card (8MB - 2GB) microSD Card (8MB - 2GB)	DLNA
BDMV	0	0	_	_	_	_
video mode	_	_	0	_	_	_
audio CD	_	_	_	0	_	_
DivX®	0	0	0	0	_	_
MP3, WMA	0	0	0	0	0	0
JPEG	0	0	0	0	0	0
MPEG1, MPEG2	_	_	_	_	_	0
AVCHD	_	_	0	_	0	_
Picture-in-picture commentary, subtitles or other extras for BD-ROM ver. 2 (Profile 2.0 / Profile 1.1)					0	_

O:Supported

Note

- ABOUT DIVX VIDEO: DivX® is a digital video format created by DivX, Inc. This is an official DivX Certified device that plays DivX video. Visit www.divx.com for more information and software tools to convert your files into DivX video.
- ABOUT DIVX VIDEO-ON-DEMAND: This DivX Certified® device must be registered in order to play DivX Video-on-Demand (VOD) content. To generate the registration code, locate the DivX VOD section in the device setup menu. Go to vod.divx.com with this code to complete the registration process and learn more about DivX VOD.
- DivX Certified® to play DivX® video up to HD 1080p, including premium content.
- Discs containing the DivX® files with the DivX® GMC (Global Motion Compensation) playback feature, which is DivX® supplemental function, cannot be played back on this unit.

Note for SD Memory Cards

- Do not remove the SD Memory Card or turn the unit to the standby mode while the contents of the card is in playback. It may result in malfunction or loss of the card's data.
- Please keep the SD Memory Cards in their cases when you are not using them.
- Do not try to open or modify the card.
- Do not touch the terminal surface with your fingers or any metals.
- Do not attach additional labels or stickers to cards.
- Do not remove the label of the SD Memory Cards.
- This unit supports SD Memory Card with FAT12/ FAT16 file system, and SDHC Memory Card with FAT32 file system.
- This unit may not read the SD Memory Cards formatted on computer. If that is the case, please reformat the SD Memory Cards in this unit and try again.
- This unit does not support miniSDHC and microSDHC Memory Card.
- For miniSD Card and microSD Card, the adapter is necessary.



· Portions of this product are protected under copyright law and are provided under license by ARIS / SOLANA / 4C.

Unplayable Discs and Files

The following discs will not be played back in this unit.

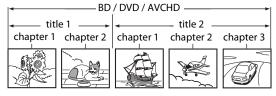
- CD-ROM CD-I (compact disc-interactive)
- DVD-RAMVSD (video single disc)DVD-audiovideo CD
- DVD-audioHD DVDSVCD
- unfinalised disc
- SD Memory Card contains DivX® files.
- BD/DVD hybrid disc (played back as a BD-video only)
- · BD that contains AVCHD files
- DVD-RW/-R recorded in VR mode or non compatible recording format.
- 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.
- Playability of dual discs are not guaranteed.
- BD-RE/-R recorded in BDAV format or non compatible recording format.
- This unit cannot play back the disc contents protected by Windows Media™ Digital Rights Management (DRM).

Colour Systems

BD and DVD are recorded in different colour systems throughout the world. The most common colour system, used primarily in the U.K. and other EU countries, is PAL. This unit uses the PAL system. However, it is also possible to play back BD and DVD using other colour systems, such as NTSC.

Structure of Disc / SD Memory Card Contents

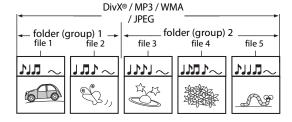
The contents of BD/DVD are generally divided into titles. Titles may be further subdivided into chapters.



Audio CDs are divided into tracks.



Data discs or SD Memory Cards containing $DivX^{\otimes}/MP3/WMA/JPEG$ are divided into folders, and the folders are subdivided into files.



On-Screen Display

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

To call the on-screen display menu, press [**DISPLAY**] during playback. Every time you press [**DISPLAY**], the information changes. Depending on the media, available information varies.



off → Title / Chapter information

- → Title information (elapsed time)
- → Title information (remaining time)
- → Decoding format information → off

DVD-V

off → Chapter information (elapsed time)

- → Chapter information (remaining time)
- → Title information (elapsed time)
- → Title information (remaining time)
- → Decoding format information → off



off (Track information (elapsed time))

- → Track information (remaining time)
- → Disc information* (elapsed time)
- → Disc information* (remaining time)
- → off (Track information (elapsed time))

(* not available during programme/random playback)



off → File information (elapsed time)

- → File information (remaining time)
- → File name information → Decoding format information
- → off



off (File information (elapsed time))

- → File name information
- → off (File information (elapsed time))



off (File information (elapsed time))

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

JPEG

off → File information

→ File name information → off

■ Chapter information

<Title / Chapter information for BD and AVCHD>

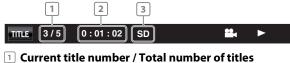


<Chapter information for DVD>



- Current title number
- 2 Current chapter number / Total number of chapters
- Current repeat setting (Only when repeat setting is
 - (C: Chapter repeat, T: Title repeat, AB: A-B repeat)
- 4 Indicates that the multi camera angle images are available on the scene
- Current playback status
- 6 Elapsed time (or remaining time) of the current chapter

■ Title information



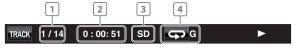
- 2 Elapsed time (or remaining time) of the current title
- Indication of SD Memory Card playback

■ Decoding format information



Decoding format

■ Track / File information



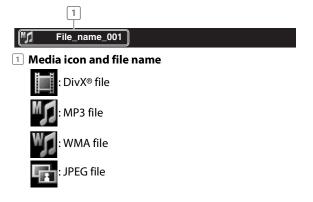
- Current track (file) number / Total number of track (file)
- Elapsed time of the current track or file (or remaining time of the current track or file) (except for JPEG files)
- Indication of SD Memory Card playback
- 4 Current repeat setting (Only when repeat setting is active) (T: Track / File repeat, G: Group repeat, A: All repeat, AB: A-B repeat)

■ Disc information



- Current track number / Total number of tracks
- 2 Elapsed time (or remaining time) of the current disc

■ File name information



■ Tag information

<Title name information>

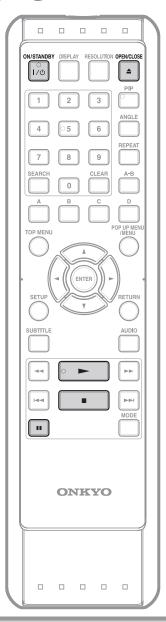


2 Artist name based on tag information of current Windows Media™ Audio file

24 ΕN

Playing Back a BD, DVD or a Disc with AVCHD Files

BD-V DVD-V AVCHD



Note

- O may appear at the top-right on the TV 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.
- BD / DVD / AVCHD menu varies depending on discs.
- If a disc contains AVCHD files, the playback of other files which are in the same disc is not available.
- Set "Still Mode" setting to "Field" in "Video" menu if pictures in the pause mode are blurred (refer to page 43).

Press [ON/STANDBY I/也].

Turn on the TV and select the appropriate input on the TV to which the unit is connected.

Press [OPEN/CLOSE ▲] to open the disc tray.

Place the disc on the disc tray with its label side facing up.



Press [OPEN/CLOSE ▲] to close the disc tray.

It may take a while to load the disc.

Playback may start automatically.

If not, press [► (play)].

Some discs may show a title or a disc menu. In this case, refer to "Operations Using Title Menu, Disc Menu, and Pop-up Menu" on page 26.

To pause playback: Press [II (pause)].

To return to the normal playback:

Press [► (play)].

To stop playback:

Press [(stop)].

Playback will be in Resume-On-Stop mode.

Resume-On-Stop mode

If a playback is in Resume-On-Stop mode, when you press [(play)] next time, the playback will start from the point where it has been stopped.

Note

- Resume playback may not be available for the BD that supports Java applications (BD-Java).
- In the "Disc" mode, the resume information will be cleared when:
 - [(stop)] is pressed while in the Resume-On-Stop mode.
 - the parental level is changed.
 - the disc tray is opened.
- In the "SD Card" mode, the resume information will be cleared when;
 - [(stop)] is pressed while in the Resume-On-Stop mode.
 - the SD Memory Card is removed.
 - the unit is turned into the standby mode.

Operations Using Title Menu, Disc Menu, and Pop-up Menu



Many of BD-video and DVD-video disc contains title menu (BD-video / DVD-video / AVCHD), disc menu (DVD-video) or pop-up menu (BD-video) which guides you through the available functions in the disc. The contents of the menus may differ depending on the discs.

Title menu (BD-video / DVD-video / AVCHD)

- 1 Press [TOP MENU].
 - The title menu will appear.
- 2 Use [▲/▼/◀/▶] to select an item, then press [ENTER].
- 3 Press [TOP MENU] to exit.

Disc menu (DVD-video)

- 1 Press [POP UP MENU/MENU].
 - The disc menu will appear.
- 2 Use [▲/▼/◀/▶] to select an item, then press [ENTER].
- 3 Press [POP UP MENU/MENU] to exit.

Pop-up menu (BD-video)

- This is a special feature available for some BD-videos.
 When you press [POP UP MENU/MENU], a menu pops out on the TV screen while the contents still play back.
- 1 During the playback of BD-video, press [POP UP MENU/MENU].
 - The pop-up menu will appear.
- 2 Use [▲/▼/◀/▶] to select an item, then press [ENTER].
- 3 Press [POP UP MENU/MENU] to exit.

Note

- Contents of menus and corresponding menu operations may vary among discs. Refer to the manual accompanying the disc for details.
- Title menu is also available for SD card with AVCHD files.

Playing Back an Audio CD or a DivX®, MP3, WMA and JPEG File

Before you begin, make sure the correct media mode is selected. Set "Mode Select" to "Disc".



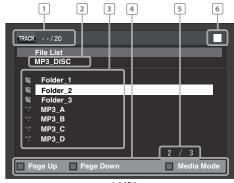
- Insert an audio CD or a disc with DivX®, MP3, WMA and JPEG files.
 - Media filter screen will appear.
 - For audio CD and a disc contains only one type of file, skip to step 3.

To return to the first item:

Press [TOP MENU].

To return to the track/file played last:

- Press [POP UP MENU/MENU].
- Select the type of the file you want to play back in the media filter screen. Then press [ENTER] to display the file list.
- Use [▲ /▼] to select a desired folder or file, then press [ENTER].
 Use [◄/▶] to go back and forward between the hierarchies. (only for DivX® / MP3 / WMA / JPEG files).
 - If you press [ENTER] on the desired file, playback will start.



e.g.) MP3

- audio CD: Track information
 DivX®/MP3/: File information
 WMA/JPEG
- audio CD : "CD-DA" will be displayed.
 - DivX®/MP3/: Current Disc or folder name will be displayed.
 WMA/JPEG (Disc or SD Memory Card name will be displayed for the top of the hierarchies.)
- 3 audio CD : List of the track number and time
 - DivX®/MP3/: List of the file or folder names in the WMA/JPEG current folder or disc
- 4 Operation : Press [A] to go to the previous page. guide Press [B] to go to the next page. Press [D] to select "Media Mode".
- 5 Current page / Total page number
- 6 Playback status

Media icon:



Folders



: MP3 files



audio CD tracks



WMA files



: DivX® files



JPEG files

It is recommended that files to be played back in this unit are recorded under the following specifications: <DivX®>

Official DivX® Certified product

· Playable codec of AVI

files : DivX® 3.x, DivX® 4.x,
DivX® 5.x, DivX® 6.x

• Maximum size of a video : 1,920 x 1,080 @60 fps

· Sampling frequency of

audio : 16 kHz - 48 kHz

Audio type : MPEG1 audio layer 3 (MP3),

MPEG1 audio layer 2,

Dolby Digital

<MP3/WMA>

Sampling frequency
: 32 kHz, 44.1 kHz or 48 kHz
Constant bit rate
: 112 kbps - 320 kbps (MP3)

48 kbps - 192 kbps (WMA)

<JPEG>

• Upper limit : 2,560 x 1,920 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

- If DivX® files written on a DVD or CD-RW/-R cannot be played back, rewrite them on a BD-RE/-R and try to play back.
- The system can recognise up to 255 folders / 999 files for CD, 999 folders / 9999 files for BD, DVD and SD Memory Card (including the files other than MP3). When number of folder / files exceeds the limit, they will be recognised by the order recorded.
- The name of folder and file can be displayed up to 28 characters. Unrecognisable 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.
- Extensions other than listed below cannot be recognised.

- DivX®: .avi / .divx - MP3: .mp3 - WMA: .wma - JPEG: .jpq / .jpeq*

- * The extension ".jpeg / .JPEG" is not available for SD
- 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 in this unit.
- This unit recognises up to 8 characters of file name in the SD Memory Card. Characters after 8th will not be displayed.
- For the SD Memory Card playback, refer to "Reading the SD Memory Card" on page 29.
- If you insert a BD, DVD, CD-RW/-R with DivX® files that are mixed with MP3 / WMA / JPEG files, the playback media selection screen will be displayed.
 Use [▲ /▼] to select your desired media to play back, then press [ENTER].



- Press [D] to call up the playback media selection screen in stop mode.
- If a disc contains AVCHD files, the playback of other files which are in the same disc is not available.
- With regard to the multi-border BD-RE/-R, additionally recorded sections cannot be recognised.
- With regard to the multi-border DVD-RW/-R, additionally recorded sections may not be recognised.

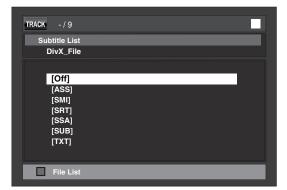
Tips for JPEG Playback

- 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 [◄/▶] or [ENTER] to switch between "Cut In/Out" and "Fade In/Out".
- During JPEG playback, press [MODE] twice to change the size of the playback image, then use [◄/▶] or [ENTER] to switch between "Normal" (100%) and "Small" (95%). The size change may have no effect on some files (e.g. files with a small picture size).

To Play Back the DivX® Subtitle Created by the User

The subtitle created by the user can be displayed during DivX® playback.

 After selecting the DivX® file, use [▲ / ▼] to select the file you want to playback, then press [C]. 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].

Hint for the purchased or rental official DivX® Certified product

- When you purchase or rent 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® VOD on page 49.
- 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.



- 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.



 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.



 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.



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 quality of the images.
- A file with an extension of ".avi" and ".divx" is called an DivX® file.
- All files with the DivX® extension are recognised as MPFG4
- 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 [► (play)].
- 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.
- Multi-session burn DivX® VOD cannot be played back on this unit

Note for DivX® Subtitle

- To utilise 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 recognised.)
- The subtitles that exceeds the playback time of the DivX® file will not be displayed.

Reading the SD Memory Card

AVCHD MP3 WMA JPEG

You can play back the AVCHD, MP3, WMA and JPEG files in an SD Memory Card. With the SD Memory Card, you can also enjoy the special additional contents for BD-ROM ver. 2 (Profile 2.0/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.)



Setting the Mode Select

In stop mode, press [SETUP].

Use [▲ / ▼] to select **Z**, then press [ENTER].



Use [▲ /▼] to select "Mode Select", then press [ENTER].

Use [▲ / ▼] to select "SD Card", 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.

 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.

Reading an SD Memory Card

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.



Use [▲ /▼] to select "SD Card", then press [ENTER].

- Media filter screen will appear.
- When the SD Memory Card contains only one type of file, skip to step 4.
- Select the type of the file you want to play back in the media filter screen. Then press [ENTER] to display the file list. Playback of AVCHD files will start right after you select "Video". (The file list is not available for AVCHD files.)

Use [▲ /▼] to select a desired track, folder or file, then press [ENTER]. Use [◀/▶] to go back and forward between the hierarchies.

• If you press [ENTER] on the desired file, playback will start.

To remove the SD Memory Card: In stop mode, gently push in the SD Memory Card, then pull it out slowly.

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, the adapter will be required.

- The "Media Select" screen will disappear under the conditions listed below:
- 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 SD cards formatted on a computer.
- This unit recognises up to 8 characters (including "~1") 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 unrecognisable characters, the folder or file name may not be displayed correctly.

 - Unrecognisable characters: [, " = + []; /]For an SD Memory Card, extension other than listed
- below cannot be recognised.
 - MP3 : ".mp3" WMA : ".wma"
- JPEG :".jpg"
- ".jpeg" is not available for SD Memory Card.

Playing Video/ Music/ Photo Files from DLNA Certified Home Media Servers

DLNA DLNA DLNA PHOTO

On this unit, you can play video, music and photo files stored on DLNA certified home media servers (version 1.5) connected to your home network. In order to use this feature, you must connect this unit to the Internet. This unit can be only as DMP (Digital Media Player).

1

Connect this unit to the Internet.

- Refer to "Network Connection with LAN" on page 19.
- 2 Set up the necessary network connection settings.
 - Refer to "Network Connection" on pages 51-54.

3

Start DLNA home media servers in your home network.

 For details, refer to the owner's manual of the DLNA certified device.

4

Press [D] while opening screen is displayed.

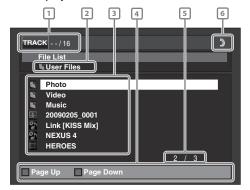
- This unit will start loading the home server list.
- To cancel loading, press [(stop)].
- To reload the home server list, press [D].
- 5

After loading, home server list will appear. Select a home server you want to access, then press [ENTER].

6

File list of the selected home server will appear. Select a file you want to play back, then press [► (play)] or [ENTER] to start playback.

 If you select a folder, select a file in the folder and then press [► (play)] or [ENTER] to start playback.



- 1 File information
- 2 Current folder name will be displayed.
- 3 List of the file / folder names in the current folder

- Operation guide: Press [A] to go to the previous page.
 Press [B] to go to the next page.
- 5 Current page / Total page number
- 6 Playback status
- To control the playback, use following buttons.

Button	Action
I◄◄/ ►►I (skip)	Skip to the previous / next file during playback or in pause mode
II (pause)	Pause the playback
► (play)	Return to the normal playback
■ (stop)	Stop the playback (For video files, playback will be in Resume-On-Stop mode.) <resume-on-stop files="" for="" mode="" video=""> Playback will start from the point where it is stopped next time you press [► (play)]. If you press [ENTER] instead of [► (play)], playback will start from the beginning of the file instead of resuming from the stop point.</resume-on-stop>

Note

- For the home server list, maximum of 10 servers can be displayed.
- The system can recognise up to 9,999 files (including folders).
- The 10th and deeper hierarchies cannot be displayed.
- This unit supports following formats. (Formats other than listed below cannot be recognised.)

- Video: MPEG 1

MPEG 2 PS MPEG 2 TS / TTS

- Music: LPCM

MP3 WMA

- Photo: JPEG

- Unplayable files in the home server will not be displayed in the file list.
- For some files, playback is not available even if displayed in the file list.
- In order to play back the contents in home servers, the player and the servers must be connected to the same access point.
- Compatibility and available playback function may differ depending on the home server.
- If you select a photo file in step 6, the selected file will be played back and go to the next file in the current hierarchy in turn every 10 seconds.
- For photo files, every press on [ANGLE] will turn the image clockwise by 90 degrees when an image is displayed.
- For a folder contains only photo files, file list or thumbnail list will be displayed, depending on the information from the home server.
- Video files with unsupported audio format will be skipped.
- The quality of the playback picture or audio differs depending on your network condition.

DLNA Client (DMP) Our Planning Specification

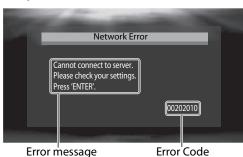
Items	Description						
DLNA version	1.5						
	System Stream	Video Codec type	Audio Codec type				
	MPEG1	MPEG1-Video	MPEG				
Video file	MPEG2-PS	MPEG2 MP@ML(SD)	LPCM/Dolby - AC3/MPEG				
	MPEG2-TS/TTS	MPEG2 MP@HL(HD) MPEG2 MP@ML(SD)	Dolby - AC3				
	Audio Codec type	Sampling Frequency	Bit rate				
	LPCM	44.1k, 48kHz	_				
Audio file	MP3 (MPEG1 Layer3)	32k, 44.1k, 48kHz	32k - 320k bps				
	MP3 (MPEG2 Layer3)	16k, 22.05k, 24kHz	8k - 160k bps				
	MP3 (MPEG2.5 Layer3)	8k, 11.025k, 12kHz	8k - 160k bps				
	WMA	8k, 11.025k, 16k, 22.05k, 32k, 44.1k, 48kHz	5k - 320k				
lmage file	JPEG	YCbCr = 4 : 2 : 0/4 : 2 : 2 colour depth = 24	Resolution : 5120 x 3840 or less File format : Exif				

DLNA Playback Format

Items			Supported Bit rate (DLNA certification criterion)
Video file	MPEG1	MPEG1-Video	1,411,200bps
	MPEG2-PS	MPEG2 MP@ML(SD)	10.08Mbps
	MPEG2-TS/TTS	MPEG2 MP@HL(HD)	19.3927Mbps
		MPEG2 MP@ML(SD)	19.3927Mbps
Audio file	LPCM	44.1kHz Mono	705.6kbps
		44.1kHz Stereo	1411.2kbps
		48.0kHz Mono	768kbps
		48.0kHz Stereo	1536kbps
	MP3 (MPEG1 Layer3)	Mono	32 - 160kbps
		Stereo	64 - 320kbps
	MP3 (MPEG2 Layer3)	Mono	8 - 80kbps
		Stereo	16 - 160kbps
	MP3 (MPEG2.5 Layer3)	Mono	8 - 80kbps
		Stereo	8 - 160kbps
	WMA	8 - 48kHz Stereo	5 - 320kbps
Image file	JPEG	Exif Ver.2.21	-

DLNA Error Code

Error Code appears in the error screen when the unit detects an error, as shown below. The code is used to specifically determine the cause of error.



e.g.) Error Code Error Code are displayed with "*******" ("*" is error code) as shown above.

Error Code Form

In the Home Network (DLNA), Error Code are used as follows.



"Summary Error Code" are shown in the list below.

Summary Error Code	Error message			
02	Cannot connect to server. Please check your settings.			
03	Playback Error			
05	No playable files found.			
20	System Error			
21	Unable to display files from the server. Please check server settings.			
22	List Updated.			
23	Connection with server lost.			
24	Unable to connect to more than 10 servers. Please turn off or stop broadcasting 1 or more servers.			

If you would like to contact us about Home Network service, please confirm the Detailed Error Code.

Fast Forward / Fast Reverse



1 During playback, press [►► (forward)] repeatedly for fast forward.

During playback, press [◄◀ (reverse)] repeatedly for fast reverse.

Every time you press [►► (forward)] or [◄◄ (reverse)], the playback speed will change.

2 Press [► (play)] to return to normal playback.

Note

- For BD, DVD and AVCHD, speed changes in 5 different levels.
- For audio CD, DivX®, MP3, WMA, and video / music files on DLNA home server, speed changes in 3 different levels.
- For audio CD, DivX®, MP3, WMA, and video / music files on DLNA home server, fast forward / fast reverse search between different tracks (files) are not available during programme and random playback.
- For audio CD, sound will be output at any speed of fast forward and reverse search.
- For some video / music files on DLNA home server or DivX® files, fast forward / fast reverse may not function.
- For some DivX® files, speed levels may vary among files.

Slow Forward Playback



1 During playback, press [II (pause)], then press [►► (forward)].

Every time you press [►► (forward)], playback speed will change.

2 Press [► (play)] to return to normal playback.

Note

- Slow forward speed changes in 3 different levels.
- Only slow forward is available.
- Set "Still Mode" setting to "Field" in "Video" menu if pictures in the slow forward playback mode are blurred (refer to page 43).
- For some video files on DLNA home server or DivX® files, slow forward may not function.

Step by Step Playback



1 In pause mode, press [II (pause)] repeatedly. Every time you press [II (pause)], playback will advance one step at a time.

2 Press [► (play)] to return to normal playback.

Note

- Only step by step forward is available.
- Set "Still Mode" setting to "Field" in "Video" menu if pictures in step by step playback mode are blurred (refer to page 43).

Repeat Playback

Available repeat functions vary depending on the discs.

1 During playback, press [REPEAT] repeatedly to select the desired repeat mode.

Repeat mode	Available media
Chapter repeat	BD-V > DVD-V>
The current chapter will be played back repeatedly.	AVCHD
Title repeat	_BD-V > _DVD-V>
The current title will be played back repeatedly.	AVCHD
Track repeat	
	CO DIVA
The current track or file will be played back repeatedly.	MP3 WMA
repeateury.	DLNA DLNA MUSIC
Group repeat	DivX> MP3>
	BIVA WIF3
The current folder will be played back	WMA JPEG
repeatedly.	DLNA DLNA MUSIC
	DLNA
All repeat	CD > DivX>
	راناق رق
All tracks or files in the media will be played back repeatedly.	MP3 WMA
	JPEG

Note

- The repeat setting will be cancelled when you stop playback.
- The chapter, title, track or group repeat will be cleared when moving to other chapter, title, track / file or folder.
- Repeat playback does not function during A-B repeat playback.
- Chapter and title repeat are not available with some scenes.
- When the repeat setting is set for an MP3 or WMA folder (file), the repeat setting will be cancelled if you select other MP3 or WMA folder (file) to playback.
- For some video / music / photo files on DLNA home server or DivX® files, repeat playback may not function.

A-B Repeat



You can play back the specific part (between point A and point B) repeatedly.

- 1 During playback, press [A-B] at the desired starting point A.
- 2 During playback, press [A-B] at the desired ending point B.

As soon as you set the point B, the part between point A and point B will start playback repeatedly.

• To cancel the A-B repeat, press [A-B] again.

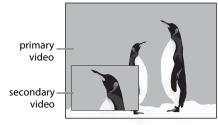
Note

- Point B should be set within the same title or track as point A.
- A-B repeat is not available with some scenes.
- To cancel the A point which was set, press [CLEAR].
- · A-B repeat does not function during chapter, title, track, group or all repeat playback.
- For some video files on DLNA home server or DivX® files, A-B repeat playback may not function.

PIP (Picture in Picture) (BONUSVIEW) Setting



Some BD-videos 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 [PIP] whenever the scene contains the secondary video.



1 During playback, press [PIP].

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.
 - Use [◄/►] to switch between current setting and "Off".
- 3 Press [RETURN] or [PIP] to remove the PIP information.

Note

- [MODE] can also be used instead of [PIP].
- The secondary audio will not be output when the secondary audio is set to "Off" or when "BD Audio Mode" is set to "HDMI Audio Out". Refer to "Switching Audio Soundtrack" on page 37 and "Setting the BD Audio Mode" on page 38.

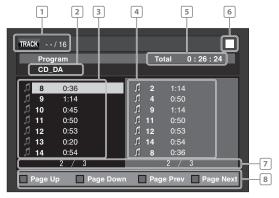
Programme Playback

CD MP3 WMA>

You can play back the disc in your desired order.

1 In stop mode, press [MODE].

- The programme screen will appear.
- 2 Use [▲/▼] to select a track / folder / file, then press [ENTER].



e.g.) audio CD

: Track information 1 audio CD MP3/WMA/: File information **JPEG**

: "CD-DA" will be displayed. 2 audio CD

MP3/WMA/ : Current disc, SD Memory Card, or **JPEG** folder name will be displayed. 3 Track/folder/: Track/folder/File list in the

File list original order

4 Programmed: Track / File list in the programmed order

5 Cumulative playback time of all tracks in the programmed list (audio CD only)

6 Playback status

Current page / Total page number

8 Operation : Press [A] to go to the previous page guide in the track / file list. Press [B] to go to the next page in the track / file list.

> Press [C] to go to the previous page in the programmed list.

Press [D] to go to the next page in

the programmed list.

- For MP3, WMA and JPEG files, use [▲ /▼] to select a folder, then press [ENTER] first, and then use $[\triangle / \nabla]$ to select a file, then press [ENTER].
- Press [CLEAR] to erase the last file of the programme.
- Use [▲ /▼] to select "All Clear" at the bottom of the list to erase all the tracks / files in the programme.
- The programmed tracks / files is displayed in the right hand screen.
- Use [◄/▶] to go back forward between the hierarchy of folders.

3 Press [► (play)] to start programme playback.

· Programme playback will start.

To exit from the programme playback mode:

• Press [RETURN] in stop mode.

Note

- During programme playback, press [■ (stop)] once to set the resume point, and then press [▶ (play)] to resume programme playback from where [■ (stop)] was pressed (audio CD) or from beginning of the file where [■ (stop)] was pressed (MP3, WMA or JPEG).
- During programme playback, press [■ (stop)]. To go back to the normal programme playback, press [RETURN] to exit from the programme screen, then press [► (play)].
- · The programme will be cleared when:
- the unit is turned into the standby mode.
- the media mode is switched to the other mode.
- the disc / card is removed. (as for "Disc" mode, just opening the disc tray will clear the programme info.)
- Up to 99 tracks / files can be entered.
- To repeat the current track / file in the programme, press [REPEAT] repeatedly until " Track" appears during playback. To repeat the entire programme, press [REPEAT] repeatedly until " All" appears during playback.
- Even if an inserted disc contains mixed MP3 and WMA files, programme function allows 99 files in combination of MP3 and WMA files.
- Playback from a desired track / file and random playback are not available during programme playback.
- Press [MODE] to switch to the random playback mode.

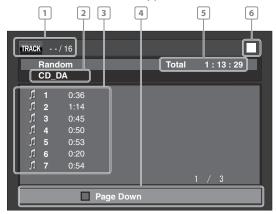
Random Playback

CD MP3 WMA JPEG

This function shuffles the playback order of tracks / files.

1 In stop mode, press [MODE] twice.

The random screen will appear.



e.g.) audio CD

audio CD : Track information MP3 / WMA / : File information

JPEG

2 audio CD : "CD-DA" will be displayed.

MP3/ WMA / : Current disc, SD Memory Card, or
JPEG folder name will be displayed.

3 Track / File : Track / File list in the original order

list

4 Operation : Press [A] to go to the previous page in the track / file list.

Press [B] to go to the next page in the track / file list.

5 Total playback time of all tracks (audio CD only)

6 Playback status

2 Press [► (play)] to start random playback.

To exit from the random playback mode:

• Press [MODE] in stop mode.

Note

- During the random playback, press [■ (stop)] once to set the resume point, and then press [► (play)] to resume random playback from where [■ (stop)] was pressed (audio CD) or from beginning of the file where [■ (stop)] was pressed (MP3, WMA or JPEG).
- During random playback, press [(stop)]. To cancel
 the random playback, press [MODE] when the
 random playback screen is displayed.
- Up to 99 tracks / files can be entered.
- 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 " All" appears during playback.
- You cannot go back to the previous track / file during random playback.
- For a disc containing mixed MP3 and WMA files, random playback of those files will be performed.

Rapid Playback







This function plays back approximately at 1.3 times the 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 Rapid playback setting appears.



2 Press [ENTER] or [◄/▶] to switch (x1.3), or off.

"Off": Plays back in normal speed.

") " : Plays back approximately at 1.3 times of

normal playback.

3 Press [▶] to return to normal playback.

Note

- Picture adjustment and audio language setting cannot be changed during this function.
- This function may not work at some points on a disc.
- During this function, 2ch LPCM will be output from HDMI OUT jack and AUDIO OUTPUT (DIGITAL OPTICAL/COAXIAL) jacks.

Camera Angle





Some BD-videos and DVD-videos contain scenes which have been shot simultaneously from various angles. You can change the camera angle when appears on the TV screen.

- 1 During playback, press [ANGLE].
 - The selected angle will be displayed on the display bar at the top of the TV screen.
- 2 Use [▲ /▼] to select your desired angle.





Note

• If "Angle Icon" setting is "Off" in "Others" menu, is will not appear. Refer to page 49.

Enjoying BD-Live Discs with Internet



You can enjoy the BD-Live functions which enable you to use the interactive functions when the unit is connected the Internet. (For the network connection, refer to pages 51-54.)

Examples for BD-Live interactive functions:

- Online access to additional content such as movie trailers, subtitles, BD-Java applications, etc.
- While downloading, special video data may be played back

How to Activate the BD-Live Function

- 1 Insert the disc with BD-Live function.
- 2 Insert an SD card with enough capacity. (SD card of 1GB or more is recommended.)
 - Make sure to use the SD card with the supported file system.
 - (Refer to "Note for SD Memory Cards" on page 22)
- **3** Press [TOP MENU] to access the disc menu.
- **4** Select "BD-Live", then press [► (play)] or [ENTER].
 - Make sure the SD card is correctly inserted, and do not remove the card during playback.
 - Service and functions differ depending on the disc.
 Follow the instructions given by the disc when using the BD-Live function.

Note

- You must connect the unit to the Internet and set up necessary settings in order to use BD-Live.
- For certain discs, "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.
- While connecting to BD-Live, sometimes it can take awhile before the next page is downloaded or refreshed.
- Some discs with BD-Live function require memory when play back the content. If you cannot play back a disc with BD-Live function, insert an SD card(1GB or more) which is formatted on this unit.

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.

SEARCH

Using [I◀◀ / ▶▶I (skip)]

- 1 During playback, press [▶►| (skip)] to move to the next track. Press it repeatedly to skip to subsequent tracks. Press [I◄◄ (skip)] once to go back to the beginning of the current track. Press it repeatedly to go to the previous tracks.
 - For JPEG files, press [I◄◄ (skip)] once to go back to the previous file.

Note

- For BD and DVD, if title contains no chapters, [I◄◀/▶► (skip)] changes the title.
- For JPEG files, [◀] or [▶] is also available.

Using [SEARCH]

By using **[SEARCH]**, you can select following search modes.

Search mode	Available media
Chapter / Title search	BD-V DVD-V AVCHD
TRACK Track search	CD DivX MP3 WMA JPEG
TIME Time search	BD-V DVD-V CD AVCHD

- 1 During playback, press [SEARCH] repeatedly until your desired search mode appears.
- 2 Enter the desired chapter, title, track, file number or time to search for using [the Number buttons].
 - Chapter, title, track or time search will start.
 - · Press [CLEAR] to erase an incorrect input.

Note

- During programme and random playback, search functions are not available except the search using [I◄◄/▶►| (skip)].
- Time search is available only in the same track, file or title.
- For BD/AVCHD, chapter and time search are available only during playback.
- For some video files on DLNA home server or DivX® files, time search may not function.

Using [the Number buttons] (Direct Search)

Title Search

In stop mode, enter the title number you want to search using [the Number buttons].

Playback of the title will start in a few seconds.

Chapter Search

During playback of a title, enter the chapter number you want to search using [the Number buttons].

Playback of the chapter will start in a few seconds.

Track / File Search

Enter the track / file number you want to search using [the Number buttons].

Playback of the track / file will start in a few seconds.

Note

 As for the BD-video, how it performs will be strongly determined by the disc, and may not perform as described here.

SPECIAL SETTINGS

You can select the format of audio and video as you prefer depending on the contents of the disc you are playing back.

Switching Subtitles

Some video materials may have subtitles in 1 or more languages. For commercially available discs, the supported languages can be found on the disc case. Follow the steps below to switch the subtitle language during playback.



- 1 During playback, press [SUBTITLE].
- 2 Use [▲/▼] to select "Primary Subtitle", "Secondary Subtitle" or "Subtitle Style", then press [ENTER].



"Primary Subtitle"

: Sets the subtitle for the

primary video.

"Secondary Subtitle"

: Sets the subtitle for the

secondary video.

"Subtitle Style"

: Sets style of the subtitle.

- 3 Use [▲ /▼] to select your desired subtitle or style.
 - Use [◄/▶] to switch between current subtitle setting and "Off".
- 4 Press [SUBTITLE] to exit.



- 1 During playback, press [SUBTITLE].
- 2 Use [▲ /▼] to select your desired subtitle.



- Use [◄/▶] to switch between current subtitle setting and "Off".
- 3 Press [SUBTITLE] to exit.

Note

- Some discs will only allow you to change the subtitles from the disc menu or pop-up menu. Press [TOP MENU] or [POP UP MENU/MENU] to display the disc menu or pop-up menu.
- If 4-digit-language code appears in the subtitle menu, refer to "LANGUAGE CODE" on page 60.
- If the disc has no subtitle language or subtitle style, "Not Available" will be displayed on the TV screen.
- During playback of the secondary video, the primary subtitle setting is not available except when there is no subtitle for the secondary video.
- Secondary subtitle setting is only available during playback of the secondary video.
- If you choose a language that has a 3-letter-language code, the code will be displayed every time you change the subtitle language setting. If you choose any other languages, "---" will be displayed instead (refer to page 60).

Switching Audio Soundtrack

When playing back video material recorded with 2 or more soundtracks (these are often in different audio languages or audio formats), you can switch them during playback.



- 1 During playback, press [AUDIO].
- 2 Use [▲ /▼] to select "Primary" or "Secondary" audio to set, then press [ENTER].



"Primary" : Sets the audio for the primary video."Secondary" : Sets the audio for the secondary video.

- 3 Use [▲ / ▼] to select your desired audio stream channel.
 - For "Secondary", use [◄/▶] to switch between current audio setting and "Off".
- 4 Press [AUDIO] to exit.



- 1 During playback, press [AUDIO].
- 2 Use [▲ / ▼] to select your desired audio stream channel.



• For audio CD, you can select following options.

"Stereo": Both right and left channels are active (stereo).

"L-ch": Only left channel is active.
"R-ch": Only right channel is active.

3 Press [AUDIO] to exit.

SPECIAL SETTINGS

Note

- The secondary audio will not be output when the secondary video is not displayed or when "BD Audio Mode" is set to "HD Audio Output". (For some BD, secondary audio will be output even when secondary video is off.)
- The sound mode cannot be changed during playback of discs not recorded in multiple audio.
- Some discs allow to change audio language setting on the disc menu. (Operation varies depending on the discs. Refer to the manual accompanying the disc.)
- [AUDIO] may not work on some discs with multiple audio streams or channels (e.g. DVD which allow to change audio setting on the disc menu).
- If you select a language that has a 3-letter-language code, the code will be displayed every time you change the audio language setting. If you select any other languages, "---" will be displayed instead (refer to page 60).
- If 4-digit-language code appears in the audio menu, refer to "LANGUAGE CODE" on page 60.
- If the disc has no audio language, "Not Available" will be displayed on the TV screen.
- For discs with DivX® files, only MP3, MP2 or Dolby Digital audio is displayed. Other audio will be displayed with "---".
- For DTS-CD (5.1 music disc), "DTS" will be displayed. (Selecting audio streams or channels is not available.)

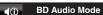
Setting the BD Audio Mode



There are 2 ways to set "BD Audio Mode" setting; whether to output the secondary and interactive audio accompanied by the primary audio or only the primary audio. Depending on the setting of the mode, Dolby Digital, Dolby Digital Plus, Dolby TrueHD, DTS, or DTS-HD output changes between multi LPCM and bitstream.

1 In stop mode with BD inserted, press [MODE].

2 Use [▲ / ▼] to select your desired setting.



HD Audio Output

"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 audio of BD through HDMI connection.

"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 secondary video (Director's comment etc.) and the interactive audio is the audio for the interactive application (Button click sounds etc.).

3 Press [RETURN] to exit.

• You can also set "BD Audio Mode" from the setup menu. Refer to page 44.

Note

- In "Mix Audio Output" mode, if there is no secondary and interactive audio, the audio will be output as "HD Audio Output" mode.
- In "Mix Audio Output" mode, even if you set "HDMI Multi(Normal)" in "HDMI Audio Out" setting, multi LPCM will be output from HDMI OUT jack for BD audio. Refer to page 15.
- In "Mix Audio Output" mode with HDMI audio being output, 2-channel down-mixed LPCM will be output from AUDIO OUTPUT (DIGITAL OPTICAL/COAXIAL) iacks for BD audio.
- In "Mix Audio Output" mode with "HDMI Audio Out" setting set to "Audio Mute" and "Digital Out" setting set to "Bitstream", DTS®, DTS-HD® and LPCM will be output as Dolby Digital for BD audio. Refer to pages 15, 18.
- You can also set "BD Audio Mode" setting from the setup menu. Refer to page 44.

SPECIAL SETTINGS

Adjusting the Picture







You can adjust the picture quality and store the setting you have adjusted on memory 1-5.

1 During playback, press [MODE] repeatedly to select "HD Picture Control" or "SD Picture Control", then press [ENTER].

"HD Picture Control":

Effective for the video signal of VIDEO OUTPUT (COMPONENT) jacks (480p/576p,720p and 1080i) and HDMI OUT jack.

"SD Picture Control":

Effective for the video signal of VIDEO OUTPUT (COMPONENT) jacks (480i/576i), VIDEO OUTPUT (VIDEO) jack.

2 Use [▲ / ▼] select a memory from "Memory1" to "Memory5" to store your setting, then press [ENTER].



3 Use [▲ /▼] to select an item to be adjusted, then use [◀ /▶] or [ENTER] to adjust the setting.



ltem	A discotors and warmers	Description	Picture Control Setting		
item	Adjustment range	Description	"HD Picture Control"	"SD Picture Control"	
1. Contrast	-7 to +7 (0*)	Adjusts the difference between the bright and dark parts of the picture.	0	0	
2. Brightness	0 to +15 (0*)	Adjusts the brightness of the picture.	0	0	
3. Sharpness	-2 to +2 (0*)	Adjusts the sharpness of the picture.	O*1	0	
4. Gamma Correction	-2 to +2 (0*)	Adjusts the dark positions of the picture.	O*1	0	
5. ICR Red	0 to +7(0*)	Adjusts the red colour of the picture.	0	_	
6. ICR Blue	0 to +7(0*)	Adjusts the blue colour of the picture.	0	-	
7. ICR Green	0 to +7(0*)	Adjusts the green colour of the picture.	0	-	
8. Color	-7 to +7 (0*)	Adjusts the colour density of the picture.	0	0	
9. Hue	-7 to +7 (0*)	Adjusts the balance between the green and red.	0	_	
10. Noise Reduction	Off*, 1to 3	Reduces noise in the luminance signal and chroma signal.	0	0	
11. MPEG NR	Off*, 1to 3	Reduces block noise and mosquito noise.	. ()		
12. Edge Enhancer	Off*, Soft, Middle, Strong	Emphasises the edge of the picture.	0	_	
13. Qdeo True Color	Off*, Low, Middle, High	Adjusts the smoothness of the picture. It is available for 10 or 12 bit display.	0	-	
14. Progressive Mode	Auto*, Video	Selects the setting of the progressive scan.	0	-	

O: available -: not exist

Note

- The setting remains even you turn the unit into the standby mode except unplug the AC cord.
- For DivX® files, noise reduction is not effective.
- ICR is the abbreviation of Intelligent Color Remapping.
- Qdeo True Color Processing (QTC) dynamically expands 8-bit video to use the full dynamic range offered by 10 and 12 bit displays, eliminating contours while preserving detail.
- · Qdeo True Color is adjustable and effective when this unit is connected with the display device which is compatible with Deep Color.

^{*)} Default setting

^{*1)} It may take several seconds to reflect the adjusted setting.

Using the Setup Menu

In the setup menu you can change the setting for audio, video, language, etc. You cannot change the setting during playback.

Setting items displayed in gray indicates they are not available under the conditions at the time.

Quick

"Quick" menu contains setting items extracted from "Custom" menu which may be used frequently.

In stop mode, press [SETUP].

Use [▲ / ▼] to select , then press [ENTER].

3 Use [▲/▼] to select your desired setting items.



Follow the procedure below depending on the setting items.

A) If ">" does not appear on the right side of the setting items when you highlight the items:

Press [ENTER] repeatedly to change options.

- B) If ">" appears on the right side of the setting items when you highlight the items:
 - 1) Press [ENTER].
 - 2) Use [▲/▼] to select options, then press [ENTER].
 - Use [◀] or [RETURN] to go back to the previous screen.

Press [SETUP] to exit.

Custom

"Custom" menu contains all the setting items.

In stop mode, press [SETUP].

Use [▲ / ▼] to select [], then press [ENTER].

Use [▲ / ▼] to select your desired setting category, then press [ENTER].

🔝 : Language

💟 : Video

🍞 : Audio

: Parental

: Others

• For "Parental" menu, follow the procedure on page 48.

Use [▲ /▼] to select your desired setting items.

 The setting items which are not available with current situation of this unit will be displayed in gray and you cannot select them.

Follow the procedure below depending on the setting items.

A) If ">" does not appear on the right side of the setting items when you highlight the items:

Press [ENTER] repeatedly to change options.

- B) If ">" appears on the right side of the setting items when you highlight the items:
 - 1) Press [ENTER].
 - 2) Use [▲/▼] to select options, then press [ENTER].
 - Use [◄] or [RETURN] to go back to the previous screen.

6 Press [SETUP] to exit.

■ M Language



• For how to select the setting items and options, refer to "Custom" on page 40.

Setting items	Options
Audio Sets the language for audio.	Original* / English / French / German / Spanish / Italian / Dutch / Swedish / Portuguese / Norwegian / Polish / Russian / Chinese / Japanese / Korean / Danish / Finnish / Icelandic / Hungarian / Romanian / Turkish / Greek / Irish / Czech / Slovak / Bulgarian / Other
Subtitle Sets the language for subtitle.	Off* / English / French / German / Spanish / Italian / Dutch / Swedish / Portuguese / Norwegian / Polish / Russian / Chinese / Japanese / Korean / Danish / Finnish / Icelandic / Hungarian / Romanian / Turkish / Greek / Irish / Czech / Slovak / Bulgarian / Other
Disc Menu Sets the language for disc menu or pop-up menu.	English* / French / German / Spanish / Italian / Dutch / Swedish / Portuguese / Norwegian / Polish / Russian / Chinese / Japanese / Korean / Danish / Finnish / Icelandic / Hungarian / Romanian / Turkish / Greek / Irish / Czech / Slovak / Bulgarian / Other
Player Menu Sets the language for OSD (on-screen display).	Auto(XXXX)*1 / English* / Français / Deutsch / Español / Italiano / Nederlands / Svenska / Português / Polski / Русский
DivX Subtitle Sets the language for DivX® subtitle. The setting is effective only for the external subtitle.	English* / French / German / Spanish / Italian / Dutch / Swedish / Portuguese / Polish / Russian1 / Russian2

^{*)} Settings with (*) are the default.

- "Auto" is available only when "HDMI CEC" is set to "On".
- Inside the parentheses next to "Auto" will be the language which is currently selected by your TV.
- "Quick" menu consists of the setting menus frequently used, and they are accompanied with 🗾 .
- If you select "Other", enter the 4-digit-number code for the desired language (Refer to "LANGUAGE CODE" on page 60). Only the languages supported by the disc can be selected.

^{*1) &}quot;Auto" activates the Get & Set Menu Language function. (Refer to page 50)

■ **Wideo**



• For how to select the setting items and options, refer to "Custom" on page 40.

Setting items	Options
TV Aspect	16:9 Wide*:
Sets the picture size according to aspect ratio of the connected TV.	Select this when a wide-screen TV is connected. Discs recorded in wide-screen format is played back over the entire TV screen.
	4:3 Pan & Scan: Select this to play back the discs recorded in wide-screen format with 4:3 TV in the pan & scan mode (with the sides of the picture cut off). Discs which are not specified for pan & scan are played back in the letter box mode.
	4:3 Letter Box: Select this to play back the discs recorded in wide-screen format with 4:3 TV in the letter box mode. (with black strips at the top and bottom).
	16:9 Squeeze: When playing back 4:3 images, the picture is displayed in the centre of the 16:9 screen with a 4:3 aspect ratio.
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 jack.
For optimal video performance, THX recommends the following settings: "HDMI Select"="YCbCr"	RGB: RGB format video signals and audio signals are output from the HDMI OUT jack.
HDMI RGB Setting	Normal*:
Sets the digital RGB image range (data range) output from the HDMI	Output as "16 (black)" to "235 (white)".
OUT jack.	Enhanced: Output as "0 (black)" to "255 (white)". Depending on the display device you are using, the black colours may seem to stand out when using HDMI connections. If so, set to "Enhanced".
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 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.
HDMI Video Resolution*1 Sets the HDMI video resolution.	Auto*: HDMI video resolution will be selected automatically depending on the connected HDMI device.
	Source Direct: HDMI video resolution will be set to the recorded resolution of a playback media.
	480i/576i
	480p/576p
	720p
	1080i
	1080p
	1080p24:
	Gives a natural and high quality film reproduction of 24-frame film material. The connected TV has to be compatible with 1080p24 frame input.

Setting items	Options
HDMI Deep Color	Auto*:
Sets whether to output the picture	The picture from HDMI OUT jack will be output with Deep Color to the
from HDMI OUT jack with Deep Color	connected TV which supports HDMI Deep Color.
or not.	Off:
	The picture from HDMI OUT jack will be output without Deep Color.
Component Output	480i/576i*
Sets the video resolution for	480p/576p
component output.	720p
	1080i
Still Mode*2	Auto*:
Adjusts picture resolution and quality	Automatically selects the best resolution setting ("Frame" or "Field") based on
in still mode.	the data characteristics of the pictures.
	Field:
	Stabilises the pictures, although the picture quality may become coarse due to the limited amount of data. Select "Field" when the pictures are still unstable even if "Auto" is selected.
	Frame:
	Displays relatively motionless pictures in higher resolution. "Frame" improves
	the picture quality, although it may unstabilise the pictures due to alternate output of 2-field data.
TV Active Area	Normal:
Sets the horizontal display area for	Select this if the image is not stable with connecting to professional-use display.
interlace (480i) output.	Full*:
	Select this for connecting to commonly-marketed display.

^{*)} Settings with (*) are the default.

The table below describes the available output resolution when "HDMI Video Resolution" is set to "Source Direct".

	Output resolution							
Media	480i/576i 480p/576p 720p 1080i 1080p 10							
BD-video	0	0	0	0	0	0		
AVCHD	0	0	0	0	0	_		
DVD-video	0	_	_	_	_	_		
DivX®	0	0	0	0	_	_		
JPEG	-	_	_	_	0	_		
DLNA Video	0	0	0	0	_	_		

O: available -: not exist

- "Quick" menu consists of the setting menus frequently used, and they are accompanied with 🗾 .
- If the picture is not output properly to the TV because of "HDMI Video Resolution" or "Component Output" setting, press and hold [▶ (play)] on the front panel for more than 5 seconds. Both settings will be reset to the default automatically.
- For "HDMI RGB Setting", select "Enhanced" if the black-white contrast is not clear. The setting is effective only for HDMI RGB output.
- Even if "HDMI Video Resolution" is set to "1080p24", for the BD that is not recorded by 1080p24 frame or for DVD, a video resolution supported by the disc and the display device will be output instead of 1080p24 frame.
- If "Component Output" is set to "480i/576i", "16:9 Squeeze" in "TV Aspect" is not available.
- If HDMI is connected, for video resolution for the component output, you can only select video resolution that currently output from HDMI OUT jack or "480i/576i".
- If the video resolution for the component output and HDMI video resolution does not match, the video resolution for the component output will be switched to "480i/576i". This also applies when "Auto" is selected in "HDMI Video Resolution". VIDEO OUTPUT (COMPONENT) jacks may not output any signals depending on the disc material.
- If you play back copy-protected DVD-Video, "480p/576p" signal will be output from the VIDEO OUTPUT (COMPONENT) jacks, when "Component Output" is set to "720p" or "1080i".
- The setting items which are not available with current situation of this unit will be displayed in gray and you cannot select the items.
- Even if "HDMI Select" is set to "YCbCr", if the display device does not support YCbCr, RGB will be output.
- If "HDMI Video Resolution" is set to "Source Direct", "1080p" or "1080p24", you cannot set "Component Output".
- Even if the setting is set to "1080p24", the output will be 60Hz when you turn the unit on.

^{*1)} Even if "HDMI Video Resolution" is set to "Source Direct", HDMI video resolution will be changed when your TV is not compatible with the video resolution of a disc material.

^{*2)} An individual picture on the TV screen is called "Frame", which consists of two separate images called "Field". Some pictures may be blurred at the auto setting in "Still Mode" setting due to their data characteristics.

■ ③ Audio



• For how to select the setting items and options, refer to "Custom" on page 40.

Setting items	Options
BD Audio Mode For BD, selects whether to output the secondary and interactive audio with primary audio if it is a valiable or only	HD Audio Output*: Outputs only the primary audio. Set this mode in order to output Dolby Digital, Dolby Digital Plus, Dolby TrueHD, DTS or DTS-HD audio of BD through HDMI connection.
the primary audio. Refer to "Setting the BD Audio Mode" on page 38.	Mix Audio Output: Outputs the secondary and interactive audio with primary audio if it is available.
HDMI Audio Out Sets the audio format for the audio output from HDMI OUT and	HDMI Multi(Normal)*: The multi-channel audio signals are output from HDMI OUT jack with bitstream or LPCM.
AUDIO OUTPUT (DIGITAL OPTICAL/ COAXIAL) jacks.	HDMI Multi(LPCM): The multi-channel audio signals are output from HDMI OUT jack with LPCM. Refer to pages 45-47 for setting options.
	HDMI 2ch: The audio signals are output from the HDMI OUT jack with a downmixed to 2ch LPCM.
	Audio Mute: Mutes the HDMI audio signal, and set the signal format from AUDIO OUTPUT (DIGITAL OPTICAL/COAXIAL) jacks. • Refer to "Digital out setting" on page 45 for setting options.
Down Sampling	On:
Sets the digital audio output from AUDIO OUTPUT (DIGITAL OPTICAL/ COAXIAL) jacks when playing back BD	 LPCM 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.
or DVD recorded in LPCM.	Off*: For BD and DVD recorded in LPCM without copyright protection, 2-channel audio signals up to 192 kHz are output as LPCM signals with no conversion.
Sets whether to compress the range of sound volume (dynamic range control) when Dolby Digital, Dolby	Auto*: When the discs recorded in Dolby TrueHD format are in playback, this unit detects DRC setting of the disc and set "DRC" setting to "On" or "Off" automatically.
Digital Plus or Dolby TrueHD audio is	Off
played back.	On

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

■ Digital out setting

When "Audio Mute" is selected in "HDMI Audio Out" setting, HDMI audio signal will be muted and the audio signals output from AUDIO OUTPUT (DIGITAL OPTICAL/COAXIAL) jacks change depending on "Digital Out" setting.

Quick → HDMI Audio Out → Audio Mute → Digital Out

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.

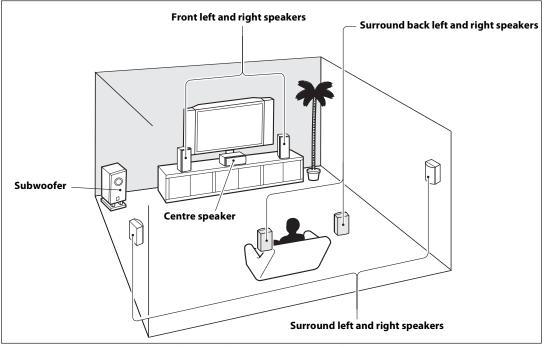
LPCM:

LPCM signal will be output from AUDIO OUTPUT (DIGITAL OPTICAL / COAXIAL) jacks.

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

■ Speaker setting

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



e.g.) basic layout with 7.1-channel surround system

To make the most of its feature, set up your speakers appropriately by referring to the following table. Speaker setting options are available at the following locations;

<Speaker setting for the audio signal output from HDMI OUT jack>
(Available when you have HDMI cable connected to HDMI OUT jack)
Quick → HDMI Audio Out → HDMI Multi(LPCM)
Custom → Audio → HDMI Audio Out → HDMI Multi(LPCM)

How to navigate through "HDMI Multi(LPCM)".

1 Use [▲ /▼] to select your desired menu item then press [ENTER].

2 Use [▲ / ▼] to select your setting items.

• Press [RETURN] to go back to the previous screen.

3 Use [◄/▶] to select desired options. (Except for "Test Tone", "Default" and setting options in "Speaker Size" setting.)

For setting options in "Speaker Size" setting:

Press [ENTER] to select desired options.

For "Test Tone":

Use [◀/▶] to select "Off", "Manual" or "Auto", then press [ENTER].

- The test tone will be output. If you select "Manual", use [▲ / ▼] to select desired speaker, then use [◄ / ▶] to adjust the volume. If you select "Auto", use [◄ / ▶] to adjust the volume of the speaker that outputs the test tone.
- If you want to stop the test tone, press [RETURN].

For "Default":

Press [ENTER] to reset to the default.

4 Press [SETUP] to exit.

Menu	Setting items	Options	Descriptions		
Speaker Size	Front	Large*	Large:		
Selects the desired		Small	For the large speakers with strong low		
speaker to set. Then	Center	Large*	frequency reproduction capabilities. — Small:		
change the setting appropriately by		Small	For the small speakers which do not provide		
referring to the	Subwoofer	On	strong bass sound.		
descriptions.	Surround	Large*	You cannot change the setting of		
		Small	"Subwoofer". If connected device is not		
	Surround Back	Large*	compatible with subwoofer, "Subwoofer" will		
		Small	be displayed in gray.		
	Default		Select "Default", then press [ENTER] to reset "Speaker Size" setting to the default.		
Channel Level	Test Tone:	Off*	Select "Off" to deactivate "Test Tone".		
Tests or sets the	"Test Tone" is the test	Manual	Select "Manual", then press [ENTER] to		
volume for each	tone which can be	Auto	manually set the volume for the desired		
speaker.	output from the speakers so that you		speaker. Select "Auto", then press [ENTER] to		
	can adjust the volume		automatically output the test tone from each		
	for each speaker.		speaker.		
	Front Lch	0dB to -12dB (0dB*)	If you have selected "Manual" in "Test Tone", select the desired speaker to set and adjust		
	Center	0dB to -12dB (0dB*)	the volume for the selected speaker. If you select "Auto" in "Test Tone", test tone		
	Subwoofer	0dB to -12dB (0dB*)	will automatically be output in order. Adjust the volume of the speaker that outputs the test tone.		
	Front Rch	0dB to -12dB (0dB*)	test tone.		
	Surround Rch	0dB to -12dB (0dB*)			
	Surround Back Rch	OdB to -12dB (OdB*)			
	Surround Back Lch	0dB to -12dB (0dB*)			
	Surround Lch	0dB to -12dB (0dB*)			
	Default		Select "Default", then press [ENTER] to reset		
			"Channel Level" setting to the default.		

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

- *) Settings with (*) are the default.
- For "Speaker Size" 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".)
- For "Delay Time", the difference between the value of the "Front", "Surround" and "Surround Back" setting cannot exceed 4.5m (15ft), and the difference between the value of the "Front" and "Center" setting cannot exceed 1.5m (5ft).
- 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 18m (60ft), the setting of "Center", "Surround" and "Surround Back" will be changed to 18m (60ft) as well.)

■ Parental

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



- 1 Use [▲ /▼] to select 🥅 , then press [ENTER].
- 2 Use [the Number buttons] to enter your 4-digit password.

For the first time use: Use **[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 forget 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.

3 Proceed to A – C

- A) BD Rating Level
 - 1) Use [▲ / ▼] to select "BD Rating Level", then press [ENTER].
 - Use [▲ /▼] 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 [▲ /▼] to select "DVD Rating Level", then press [ENTER].
 - 2) Use [▲ /▼] to select your desired level, then press [ENTER].
 - 3) Press [SETUP] to exit.

	RATING EXPLANATIONS				
• All	: Parental Control is inactive; all discs can playback.				
• 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

- 1) Use [▲ /▼] to select "Password Change", then press [ENTER].
- 2) Enter a new 4-digit password, then press [ENTER].
- 3) Press [SETUP] to exit.

Note

• The resume information will be cleared if you change the parental level when the resume information is on.

■ Others



 \bullet For how to select the setting items and options, refer to "Custom" on page 40.

Setting items			Options		
Angle Icon	On*:				
	The angle icon appears on the TV sc		V screen when playing back the scene with various		
	angle.				
	Off:				
	The angle icon disappears on the TV screen.				
Auto Power Off	On*:				
	If this unit is left with no activity for more than 25 minutes, this unit turns off				
	automatically.				
	Off:				
	Sets off the auto power off.				
Panel Display	Auto*:				
Sets the brightness of the front	Front panel display gets da	rker aurin	д ріаураск.		
panel display.	Bright:				
	Front panel display gets bri	gnter.			
	Dimmer:	rkor			
DivX(R) VOD	Front panel display gets da Registration Code	KEI.	This	tone provide a very that the D' Ve	
DIVX(R) VOD	Your registration code is:		VOD registr	tem provides you with the DivX® ation code. The DivX® registration	
	0000000000			uired when downloading the	
	To learn more visit			files from the Internet. To learn	
	www.divx.com/vod		more about DivX® VOD, visit		
			www.divx.com/vod.		
	Deactivation Code		This menu item provides you with the DivX®		
	Your deactivation code is:		VOD deactivation code. The DivX®		
	0000000		deactivation code is required when		
	To learn more visit		re-downloading the DivX® VOD files from the		
	www.divx.com/vod			er deactivating. To learn more ® VOD, visit www.divx.com/vod.	
	Donativation	IV.			
	Deactivation	Yes	Inis menu d	deactivates this unit and provides ew registration code and	
		No*		n code in order to download the	
				files from the Internet.	
HDMI CEC	On*	1			
Sets whether to utilise HDMI CEC	Off				
function.					
Mode Select	Disc*:				
Selects the media to	Select this when you play back a disc.				
playback.	SD Card:				
Setting will be back to "Disc"	Select this when you play back an SD Memory Card.				
when you turn the unit to the standby mode.	Network:				
	Select this when you use DLNA home media server.				
Network Connection	Connection Test			Perform the network connection	
				test. After you change the IP	
				address or DNS setting, always perform this test.	
	Enable/Easy*			If you select "Enable(Easy)",	
				connection test will	
				automatically start.	
				automaticumy start.	

Setting items	Options				
Network Connection	Enable(Custom)	IP Address	Auto(DHCP)*		Set the IP address.
		Setting	Manual	IP Address	In most cases, you can connect
				Subnet Mask	to the Internet without making any changes to the default setting.
				Default	Jetting.
				Gateway	
		DNS Setting			Set the DNS setting.
			Manual	Primary DNS	In most cases, you can connect to the Internet without making
				Secondary DNS	any changes to the default setting.
		Proxy	Do Not U	Jse*	Set the proxy server.
		Setting	Use	Proxy Address Proxy Port	In most cases, you can connect to the Internet without using proxy server.
		Connection	Auto*	, , , , ,	Set the connection speed.
		Speed	10BASE Half		In most cases, you can connect
			10BASE Full		to the Internet without making any changes to the default
		100BASE Half		setting.	
			100BASE	Full	, serg.
		BD-Live	Allow* Limited Allow Prohibit		You can restrict Internet access Limited Allow when BD-Live functions are used.
		Setting			
	D: 11	MAC Address			You can check the MAC address.
	Disable				Deactivate the network connection.
	Power On	Enable			Set to "Enable" to switch on /
	Control	Disable*			standby mode from the connected external device with a LAN cable. When set to "Enable", the power consumption could reach a maximum of 7W.
Software Update	Current Version :				1
Allows you to update this unit's					
firmware.	Disc Update :				
Refer to page 54.	You can update the software by using a disc.				
	Network Update:				
	You can update the firmware version by connecting this unit to the Internet.				

) Settings with () are the default.

- HDMI CEC allows integrated system control over HDMI and is part of the HDMI standard.
 In addition to Onkyo AV components, it allows interoperability with CEC-compatible AV components and TVs made by other manufacturers.
- When "HDMI CEC" setting is set to "On", functions listed below will be available.

Direct Change

When this unit is turned on, the TV is also turned on and the appropriate external input channel will be selected automatically. The appropriate external input channel can also be selected on your TV automatically when you press [> (play)] when the unit's power is on.

Standby

When you press and hold [I / O ON/STANDBY] on the front panel for 2 seconds, it turns off the power of the TV first and then turns off the power of this unit also.

System Information

Get & Set Menu Language

- The unit recognises the OSD language set for the TV and automatically sets the same language as the player menu language (OSD menu language) for this unit.
- This feature is available only when "Auto(XXXX)" is selected in "Player Menu" in the setup menu. (Refer to "Player Menu" on page 41.)

Note

HDMI CEC is available only when the display device is connected by an HDMI cable, and when it supports HDMI CEC feature.

Network Connection

Set up the network connection settings in order to use BD-Live, DLNA home media server or network update function.

Connection Test

After you enable a network connection or change the network settings, always perform the connection test to check if the connection is correctly made.

- 1 In stop mode, press [SETUP].
- 2 Use [▲/▼] to select [], then press [ENTER].
- **3** Use [▲ /▼] to select "Others", then press [ENTER].
- 4 Use [▲/▼] to select "Network Connection", then press [ENTER].
- 5 Use [▲ /▼] 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.



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

Note

- If the connection test passes, you can enjoy the BD-Live, DLNA home media server feature or network update function, 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.
- "Connection Test" is not available when "Disable" is selected in "Network Connection".

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
 DNS Setting
 Proxy Setting
 Connection Speed
 BD-Live Setting
 Auto(DHCP)
 Do Not Use
 Auto
 Allow

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 page 51.
- 2 Use [▲ / ▼] 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)

In following cases, select "Enable(Custom)" to set each setting as necessary.

- When connection test failed with the setting of "Enable(Easy)".
- When instructed by your Internet service provider to make specific settings in accordance with your network environment.
- IP Address Setting / DNS Setting
- 1 Follow steps 1 to 4 in "Connection Test" on page 51.
- 2 Use [▲ / ▼] to select "Enable(Custom)", then press [ENTER].
- 3 Use [▲/▼] to select "IP Address Setting", then 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 and DNS.

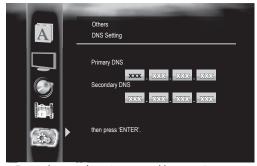
3-a) Use [▲ / ▼] to select "IP Address", "Subnet Mask" or "Default Gateway", then press [ENTER]. IP address setting screen will appear. Enter IP address, subnet mask and default gateway with cursor buttons and number buttons.



- 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.
- 3-b) After you enter all correctly, press [ENTER].
 - Confirmation message will appear. Select "Yes" to complete the settings.



3-c) Use [▲ / ▼] to select "Primary DNS" or "Secondary DNS", then press [ENTER]. DNS setting screen will appear. Enter primary DNS and secondary DNS with cursor buttons and 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.

- 3-d) After you enter all correctly, press [ENTER].
- Confirmation message will appear. Select "Yes" to complete the settings.



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

Note

- The range of input numbers 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.

• Proxy Setting

- 1 Follow steps 1 to 4 in "Connection Test" on page 51.
- 2 Use [▲ / ▼] to select "Enable(Custom)", then press [ENTER].
- 3 Use [▲ /▼] to select "Proxy Setting", then press [ENTER] repeatedly to select the desired setting.
 - For default settings, select "Do Not Use".
 - If you need to change the proxy setting as instructed by your Internet service provider to set the designated proxy address and port, select "Use".

If you select "Use", follow the following instructions to set the proxy address and proxy port.

- 3-a) Use [▲ / ▼] to select "Proxy Address", then press [ENTER]. Proxy address setting screen will appear. Enter proxy address.
 - The keyboard screen will appear.



[▲/▼/◀/▶] : Move the highlight.

[the Number buttons] : Enter number.

[ENTER]: Enter the highlighted number/word.

[A]: Clear the entered number or word.

[B]: Clear all the entered numbers or words.

[C]: Switch between abc? ABC?@!?

[D]: Set the entered number or word.

3-b) After you enter proxy address correctly, press [D].

 Confirmation message will appear. Select "Yes" to complete the settings.



3-c) Use [▲ / ▼] to select "Proxy Port", then press [ENTER]. Proxy port setting screen will appear. Enter proxy port number with number buttons.



3-d) After you enter proxy port correctly, press [ENTER].

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

Note

- The range of input numbers for the 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 environment.

• Connection Speed

You can set connection speed as your preference. (The default setting is "Auto".)

- 1 Follow steps 1 to 4 in "Connection Test" on page 51.
- 2 Use [▲ / ▼] to select "Enable(Custom)", then press [ENTER].
- 3 Use [▲ /▼] to select "Connection Speed", then press [ENTER].
- 4 Use [▲ /▼] 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".

5 Press [RETURN] to go back to the previous screen, or press [SETUP] to exit.

Note

- Choose a connection speed in accordance with your network environment.
- The network connection may be disabled depending on the device, when the settings are changed.

BD-Live Setting

You can limit the Internet access from the BD-Live functions. (The default setting is "Allow".)

- 1 Follow steps 1 to 4 in "Connection Test" on page 51.
- 2 Use [▲ /▼] to select "Enable(Custom)", then press [ENTER].
- 3 Use [▲ /▼] to select "BD-Live Setting", then press [ENTER].
- 4 Use [▲/▼] 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.

5 Press [RETURN] to go back to the previous screen, or press [SETUP] to exit.

Disable

Deactivate all the network connection and settings.

- 1 Follow steps 1 to 4 in "Connection Test" on page 51.
- 2 Use [▲ / ▼] to select "Disable", then press [ENTER].
- 3 Press [RETURN] to go back to the 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)".

Software Update

Current Version

You can confirm the current software version.

- 1 Follow steps 1 to 3 in "Connection Test" on page 51.
- 2 Use [▲/▼] to select "Software Update", then press [ENTER].
- 3 Use [▲/▼] to select "Current Version", then press [ENTER].



4 Press [ENTER] or [RETURN] to exit.

Note

• Please visit <u>www.onkyo.com</u> to download the latest firmware version.

Disc Update

You can update the software by using a disc.

- 1 Follow steps 1 to 3 in "Connection Test" on page 51.
- 2 Use [▲/▼] to select "Software Update", then press [ENTER].
- 3 Use [▲/▼] to select "Disc Update", then press [ENTER].
- **4** Use [▲ / ▼] to select "Yes", then press [ENTER].

5 Disc tray will open automatically.

- Insert the disc for software update and then press [OPEN/CLOSE ▲].
- 6 After completing loading disc, confirmation message will appear. Select "Yes" and press [ENTER] to start upgrading.
 - It may take a while to complete the upgrading. (Please wait until "100%" appears on the front panel display.)
- 7 After the disc update finishes, this unit will restart and eject the disc.

Note

- Please do not unplug the AC power cord while executing the "Disc Update".
- All settings will remain the same even if you update the firmware version.

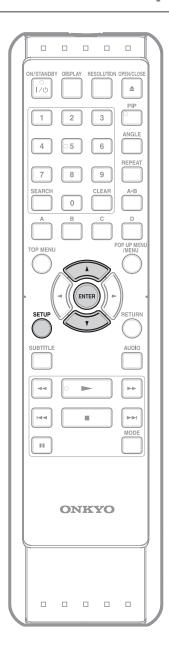
Network Update

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

- 1 Follow steps 1 to 3 in "Connection Test" on page 51.
- 2 Use [▲ / ▼] to select "Software Update", then press [ENTER].
- 3 Use [▲/▼] to select "Network Update", then press [ENTER].
- **4** Use [▲ / ▼] to select "Yes", then press [ENTER].
 - This unit will then start checking for the latest firmware version.
- 5 Confirmation message will appear. Use [▲ / ▼] to select "Yes", then press [ENTER].
 - The unit will start downloading the latest firmware version.
- 6 When the download completes, confirmation message will appear. Press [ENTER].
 - The unit will start upgrading the firmware version.
 - It may take a while to complete the upgrading. (Please wait until "100%" appears on the front panel display.)
- 7 After upgrading finishes, this unit will restart and open the disc tray automatically.

Note

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



Initialize

Initialise the setting or SD Memory Card.

- In stop mode, press [SETUP].
- 2 Use [▲ / ▼] to select , then press [ENTER].
- Use [▲ /▼] to select a desired option, then press [ENTER].

"Setup": Resets the setup menu to the default.
The setting for "Parental", "Network
Connection" and "Mode Select" will
not be reset.

"Format SD Card" (Available only when an SD Memory Card is inserted.):

Initialises the SD Memory Card.

"Erase Saved BD-ROM Data (Player)":

Clears the data saved for the BD-ROM contents, such as BD-ROM game scores, from this player.

"Erase Saved BD-ROM Data (SD Card)" (Available only when an SD Memory Card is inserted.):

Clears the supplemental data for the BD-ROM playback, such as subtitle data, from the SD Memory Card.

"Network Settings":

Resets the Network Settings menu to the default.



- Confirmation message will appear.
 Use [▲ /▼] to select "Yes", then press
 [ENTER].
- Press [SETUP] to exit.

Caution

 Do not remove the SD Memory Card while executing the "Format SD Card" or the "Erase Saved BD-ROM Data (SD Card)". It damages the card.

TROUBLESHOOTING

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

. Unplug the AC cord once, and wait for 5-10 seconds and then plug it in again. No sound or picture. Check if the connected TV is turned on. Check if the connected TV 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. When this unit is connected to the DVI Jack on your TV or AV receiver, you cannot hear any sound from the HDMI OUT Jack if your TV or AV receiver, you cannot hear any sound from the HDMI OUT Jack if your TV or AV receiver, you cannot hear any sound from the HDMI OUT Jack if your TV or AV receiver, you cannot hear any sound from the HDMI OUT Jack if your TV or AV receiver, you cannot hear any sound from the HDMI OUT Jack if your TV or AV receiver, you cannot hear any sound from the HDMI OUT Jack if your TV or AV receiver and hold DV [Jack] and hold DV [Jack] in the display device does not support the desired video resolution, press and hold DV [Jack] in the HDMI output is set to "Source Direct", it may take a while to display the playback picture, when the video resolution of a disc material switches during playback. No audio / video signal on the display device with an HDMI cable. If the unit is connected the unauthorised display device with an HDMI cable, the audio / video signal any not be output. Perform an HDMI cable hotplug, wherein you disconnect the HDMI cable, from the TV, AV receiver and this unit and then reconnect it to both the devices while they are powered on. Ensure that your HDMI cable is certified. Distorted picture. Completely distorted picture or black / white picture with BD / DVD. No sound or distorted sound. A was a malfunction. Connect this unit directly to the TV. If the RCA audio / video cables are connected to a WCR, pictures may be distorted due to the copy right protection system. A was a malfunction. Connect the disc is compatible with this unit. Britian the present of th	Problem	Solution
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	unit stops responding.	

TROUBLESHOOTING

Problem	Solution
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.
The unit cannot read BD / DVD / CD.	 Condensation? (Let sit 1 or 2 hours) You are attempting to playback a disc other than one with one of the marks on page 21. Wipe the dirt off the disc or replace the disc.
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 settings in "Parental" menu.
The password for rating level has been forgotten.	- Enter the default password "4737", then your forgotten password will be cleared.
Cannot connect to the network.	 Check if the LAN cable connection is properly made. Turn on the modem or broadband router. Check the network setting. Check if the broadband router and/or modem is correctly connected. Check the "BD-Live Setting".
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.
The capacity of the SD card decreased.	- Data may be written to the SD card when a BD-video that supports the virtual package is used and an SD card is in the slot.
Cannot use the BD-Live function or download of data does not perform properly.	 Insert an SD card with enough capacity (1GB or more). Check if an SD card is correctly inserted. Make sure the write-protect switch on the SD card is not enabled.
Cannot play back BD-video (BD-ROM Profile 2.0).	 Insert an SD card(1GB or more) which is formatted on this unit. Some discs with BD-Live function require memory when playing back the content. Do not remove the card during playback. Make sure the write-protect switch on the SD card is not enabled.
Folder or files stored on DLNA home media server are not displayed in the file list or cannot be played back.	 Check the setting on your home media server. (Refer to the owner's manual of the home media server.) Check the network connection and settings.
"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 recognised as an HDCP incompatible by HDMI SRM. When the connected device supports HDCP but cannot be recognised as an HDCP compatible for some reason.

The BD player contains a microcomputer for signal processing and control functions. In very rare situations, severe interference, noise from an external source, or static electricity may cause it to lockup. In the unlikely event that this happens, unplug the power cord from the wall outlet, wait at least 5 seconds, and then plug it back in again.

Note

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

GLOSSARY

Analogue 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

The width of a TV screen relative to its height. Conventional TVs are 4:3 (in other words, the TV screen is almost square); widescreen models are 16:9 (the TV screen is almost twice as wide as it is high).

AVCHD

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

BD-Java

With some BDs which support Java applications, you can enjoy the interactive functions such as games or interactive menus.

BD-Live

BD-Live is a BD-video (BD-ROM version 2 Profile 2.0/ Profile 1.1) which contains new functions (e.g. Internet connection), in addition to the BONUSVIEW function.

Blu-ray Disc (BD)

Blu-ray Disc is a next generation optical video disc which is capable of storing much more data than a conventional DVD. The large capacity makes it possible to benefit from the features such as high-definition videos, multi-channel surround sounds, interactive menus and so on.

Chapter

Just as a book is split up into several chapters, a title on a BD-video or DVD-video is usually divided into chapters. See also "Title".

Component Video Output

Each signal of luminance (Y) and component (P_B/C_B , P_R/C_R) is independent to output so that you can experience picture colour as it is.

Also, due to compatibility with progressive video (480p/576p), you can experience higher-density picture than that in interlace (480i/576i).

Deep Color

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

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 analogue-to-digital converter, generating a stream of numbers. On playback, a digital-to-analogue converter generates an analogue signal based on these numbers. See also "Sampling Frequency" and "Analogue 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.

DLNA (Digital Living Network Alliance)

DLNA is a cross-industry organization of consumer electronics that formulates DLNA Interoperability Guidelines for sharing digital contents within a home network.

DNS Server

A server which translates Internet domain names into IP addresses.

Dolby Digital

The system to compress digital sound developed by Dolby Laboratories. It offers you sound of stereo (2ch) or multi-channel audio.

Dolby Digital Plus

Dolby Digital Plus is the next generation digital audio compression technology developed as an extension to Dolby Digital. Blu-ray Disc supports 7.1 multi-channel surround sound output.

Dolby TrueHD

Dolby TrueHD is a lossless coding technology developed for next generation optical discs. Blu-ray Disc supports 7.1 multi-channel surround sound output.

DTS® (Digital Theater System)

DTS® is a multi-channel surround sound system. You can enjoy movie dynamic and realistic sound like movie theatre. DTS surround sound technologies were developed by DTS, Inc.

DTS-HD®

DTS-HD® is a lossless coding technology developed as an extension of the original DTS Coherent Acoustics format. Blu-ray Disc supports 7.1 multi-channel surround sound output.

Gateway

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

HDMI (High-Definition Multimedia Interface)

A digital interface between audio and video source. It can transmit component video, audio, and control signal with one cable connection.

Hub

A device used for connecting multiple device to the network.

IP Address

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

JPEG (Joint Photographic Experts Group)

JPEG is a method of compressing still picture files. You can copy JPEG files on BD-RE/-R, DVD-RW/-R, CD-RW/-R or SD Memory Card or DLNA home server from the computer and play back the files on this unit.

LAN (Local Area Network)

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

Local Storage

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

GLOSSARY

MP3 (MPEG audio layer 3)

MP3 is a method of compressing files. You can copy MP3 files on BD-RE/-R, DVD-RW/-R, CD-RW/-R or SD Memory Card or DLNA home server from the computer and play back the files on this unit.

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.

MPEG2-PS

This is used for DVD and HDD recording format. PS is an abbreviation of Program Stream.

MPEG2-TS /TTS

This is adopted in digital broadcasting.
TTS (Timestamped TS) is a format of TS packet with
Timestamp information. TS is an abbreviation of Transport
Stream.

PCM (Pulse Code Modulation)

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 receivers with digital inputs, this unit can convert Dolby Digital and MPEG audio to PCM. See also "Digital Audio".

Proxy Server

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

Region Code

Regions associate discs and players with particular areas of the world. This unit will only play back discs that have compatible region codes. You can find the region code of your unit by looking on the rear panel. Some discs are compatible with more than one region (or all regions).

Router

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

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.

Subnet Mask

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

Title

A collection of chapters on BD-video or DVD-video. See also "Chapter".

Track

Audio CD use tracks to divide up the content of a disc. The BD-video or DVD-video equivalent is called a chapter. See also "Chapter".

Virtual Package

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

Windows Media™ Audio

Windows Media[™] Audio is the audio compressing technology developed by Microsoft. You can copy Windows Media[™] Audio files on BD-RE/-R, DVD-RW/-R, CD-RW/-R or SD Memory Card or DLNA home server 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 realise a wide colour space based on the xvYCC specifications and is a trademark of Sony Corporation.

LANGUAGE CODE

Language	Code
A-B	
Abkhazian	4748
Afar	4747
Afrikaans	4752
Albanian	6563
Amharic	4759
Arabic	4764
Armenian	5471
Assamese	4765
Aymara	4771
Azerbaijani	4772
Bashkir	4847
Basque	5167
Bengali;Bangla	4860
Bhutani	5072
Bihari	4854
Bislama	4855
Breton	4864
Bulgarian [BUL]	4853
Burmese	5971
Byelorussian	4851
C-E	
Cambodian	5759
Catalan	4947
Chinese [CHI]	7254
Corsican	4961
Croatian	5464
Czech [CZE]	4965
Danish [DAN]	5047
Dutch [DUT]	6058
English [ENG]	5160
Esperanto	5161
Estonian	5166
F-H	
Faroese	5261
Fiji	5256
Finnish [FIN]	5255

Language	Code		
French [FRE]	5264		
Frisian	5271		
Galician	5358		
Georgian	5747		
German [GER]	5051		
Greek [GRE]	5158		
Greenlandic	5758		
Guarani	5360		
Gujarati	5367		
Hausa	5447		
Hebrew	5569		
Hindi	5455		
Hungarian [HUN]	5467		
I-K			
Icelandic [ICE]	5565		
Indonesian	5560		
Interlingua	5547		
Interlingue	5551		
Inupiak	5557		
Irish [IRI]	5347		
Italian [ITA]	5566		
Japanese [JPN]	5647		
Javanese	5669		
Kannada	5760		
Kashmiri	5765		
Kazakh	5757		
Kinyarwanda	6469		
Kirghiz	5771		
Kirundi	6460		
Korean [KOR]	5761		
Kurdish	5767		
L-N			
Laothian	5861		
Latin	5847		
Latvian;Lettish	5868		
Lingala	5860		

Lithuanian

Language	Code
Macedonian	5957
Malagasy	5953
Malay	5965
Malayalam	5958
Maltese	5966
Maori	5955
Marathi	5964
Moldavian	5961
Mongolian	5960
Nauru	6047
Nepali	6051
Norwegian [NOR]	6061
O-R	
Occitan	6149
Oriya	6164
Oromo (Afan)	6159
Panjabi	6247
Pashto;Pushto	6265
Persian	5247
Polish [POL]	6258
Portuguese [POR]	6266
Quechua	6367
Rhaeto-Romance	6459
Romanian [RUM]	6461
Russian [RUS]	6467
S	
Samoan	6559
Sangho	6553
Sanskrit	6547
Scots Gaelic	5350
Serbian	6564
Serbo-Croatian	6554
Sesotho	6566
Setswana	6660
Shona	6560
Sindhi	6550
Singhalese	6555

Language	Code
Siswat	6565
Slovak [SLO]	6557
Slovenian	6558
Somali	6561
Spanish [SPA]	5165
Sundanese	6567
Swahili	6569
Swedish [SWE]	6568
Т	
Tagalog	6658
Tajik	6653
Tamil	6647
Tatar	6666
Telugu	6651
Thai	6654
Tibetan	4861
Tigrinya	6655
Tonga	6661
Tsonga	6665
Turkish [TUR]	6664
Turkmen	6657
Twi	6669
U-Z	
Ukrainian	6757
Urdu	6764
Uzbek	6772
Vietnamese	6855
Volapuk	6861
Welsh	4971
Wolof	6961
Xhosa	7054
Yiddish	5655
Yoruba	7161
Zulu	7267

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 page 37. If you choose any other languages, "---" will be displayed instead.

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SPECIFICATIONS

General	
Signal system	NTSC / PAL Colour
Power requirements	AC110-240V, 50/60Hz
Power consumption	25W (standby: 0.4W)
Dimensions (width x height x depth)	435 x 108 x 312mm
Weight	5kg
Operating temperature	5°C to 40°C
Operating humidity	Less than 80% (no condensation)

Audio	
BD Linear Audio	4 Hz–88 kHz (192 kHz)
DVD Linear Audio	4 Hz-44 kHz (96 kHz), 4 Hz-22kHz (48 kHz)
Audio CD	4 Hz-20 kHz (44.1 kHz)
Signal to Noise Ratio	100 dB
Audio Dynamic Range	98 dB
THD (Total Harmonic Distortion)	0.005% (1 kHz)

Te	erminals			
	Audio output (Analogue) RCA jack x 2	L/R: 2Vrms (output impedance: more than $1k\Omega$)		
	Video output RCA jack x 1	1Vp-p (75Ω)		
a.	Component video output RCA jack x 3	Y: 1Vp-p (75Ω)	P _B : 700mVp-p (75Ω)	Pr: 700mVp-p (75Ω)
Rear	Audio output (Digital) RCA jack x 1 Optical jack x 1	500mVp-p (75Ω) Digital connecto		
	HDMI output HDMI jack x 1	Video: 480i/576i, 480p/576p, 720p, 1080i, 1080p, 1080p24 / Audio		
	ETHERNET terminal	10BASE-T/100BASE-TX		

Note

• The specifications and design of this product are subject to change without notice.

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BD-SP808(B)CUP2P_BD-SP808(S)CUP2P E5TE0ED_E5TE2ED / 1VM333957****

HOMEPAGE

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