

DBT-3313UD UNIVERSAL AUDIO/VIDEO PLAYER

Owner's Manual

□ SAFETY PRECAUTIONS



CAUTION:

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



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



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

WARNING:

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

CLASS 1 LASER PRODUCT



- ADVARSEL: USYNLIG LASERSTRÅLING VED ÅBNING, NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSAETTELSE FOR STRÅLING.
- VAROITUS! LAITTEEN KÄYTTÄMINEN MUULLA KUIN TÄSSÄ KÄYTTÖOHJEESSA MAINITULLA TAVALLA SAATTAA ALTISTAA KÄYTTÄJÄN TURVALLISUUSLUOKAN 1 YLITTÄVÄLLE NÄKYMÄMTTÖMÄLLE LASERSÄTEILYLLE.
- OM APPARATEN ANVÄNDS PÅ ANNAT SÄTT ÄN I DENNA VARNING: BRUKSANVISNING SPECIFICERATS, KAN ANVÄNDAREN UTSÄTTAS FÖR OSYNLIG LASERSTRÅLNING SOM ÖVERSKRIDER GRÄNSEN FÖR LASERKLASS 1.



ATTENZIONE: QUESTO APPARECCHIO E' DOTATO DI DISPOSITIVO OTTICO CON RAGGIO LASER. L'USO IMPROPRIO DELL'APPARECCHIO PUO' CAUSARE PERICOLOSE ESPOSIZIONI A RADIAZIONI!

IMPORTANT SAFETY INSTRUCTIONS

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

CAUTION:

To completely disconnect this product from the mains, disconnect the plug from the wall socket outlet.

The mains plug is used to completely interrupt the power supply to the unit and must be within easy access by the user.

CAUTION:

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

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

□ NOTES ON USE

WARNINGS

- Avoid high temperatures.
- Allow for sufficient heat dispersion when installed in a rack.
- · Handle the power cord carefully.
- Hold the plug when unplugging the cord.
- · Keep the unit free from moisture, water, and dust.
- Unplug the power cord when not using the unit for long periods of time.
- Do not obstruct the ventilation holes.
- · Do not let foreign objects into the unit.
- Do not let insecticides, benzene, and thinner come in contact with the unit. Never disassemble or modify the unit in any way.
- Ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths or curtains,
- Naked flame sources such as lighted candles should not be placed on the unit.
- Observe and follow local regulations regarding battery disposal.
- Do not expose the unit to dripping or splashing fluids.
- Do not place objects filled with liquids, such as vases, on the unit.
- Do not handle the mains cord with wet hands.
- When the switch is in the OFF (STANDBY) position, the equipment is not completely switched off from MAINS.
- The equipment shall be installed near the power supply so that the power supply is easily accessible.
- Do not keep the battery in a place exposed to direct sunlight or in places with extremely high temperatures, such as near a heater.





• DECLARATION OF CONFORMITY

We declare under our sole responsibility that this product, to which this declaration relates, is in conformity with the following standards: EN60065, EN55013, EN55020, EN61000-3-2 and EN61000-3-3. Following the provisions of Low Voltage Directive 2006/95/EC and EMC Directive 2004/108/EC, the EC regulation 1275/2008 and its frame work Directive 2009/125/EC for Energy-related Products (ErP).

DENON EUROPE Division of D&M Germany GmbH An der Kleinbahn 18, Nettetal, D-41334 Germany

A NOTE ABOUT RECYCLING:

This product's packaging materials are recyclable and can be reused. Please dispose of any materials in accordance with the local recycling regulations.

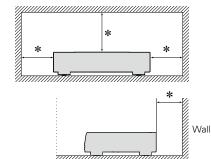
When discarding the unit, comply with local rules or regulations.

Batteries should never be thrown away or incinerated but disposed of in accordance with the local regulations concerning battery disposal.

This product and the supplied accessories, excluding the batteries, constitute the applicable product according to the WEEE directive.



□ CAUTIONS ON INSTALLATION



- * For proper heat dispersal, do not install this unit in a confined space, such as a bookcase or similar enclosure.
- More than 0.1 m is recommended.
- Do not place any other equipment on this unit.

Getting started

Thank you for purchasing this DENON product. To ensure proper operation, please read these owner's manual carefully before using the product. After reading them, be sure to keep them for future reference.

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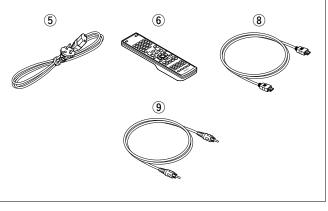
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Accessories

Check that the following parts are supplied with the product.

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④ Service network list1
5 Power cord 1
6 Remote control (RC-1161)1
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Features

A Universal Audio/Video player that plays Super Audio CD and DVD-Audio formats

The unit supports a variety of media and enables video and audio playback of your disc libraries with high quality (<u>page 51</u> "Playable media").

Supporting the Network operations

- When the unit is connected to the Internet, YouTube/NETFLIX service can be used.
- Music, photos, video files stored on the device connected via the network can be played.
- When the unit is connected to the Internet, privileged video can be downloaded from the Internet site to the built-in memory to enjoy BD-LIVE[™] (☞ page 10 "Connecting to a home network (LAN)").

3D video playback

When the unit is connected to a 3D enabled TV with a high speed HDMI cable, you can enjoy 3D video.

Independent Block Construction for playing video and audio signals with high fidelity

The electronic circuits are separated to prevent electronic and electromagnetic noise caused by various electronic signals in the unit.

GUI equipped for good operability and visibility

This unit is equipped with an easy to see "Graphical User Interface" that uses menu displays and levels. The use of level displays increases operability of the this unit (page 37 "SETUP menu operation").

HDMI control

By connecting a television or AV receiver that supports the HDMI control function to this unit using an HDMI cable, and enabling the HDMI control settings on each device, you can control other devices from one device (Page 34 "HDMI control functions").

DENON's unique high quality playback technology "Denon Link HD"

By connecting to a DENON AV receiver compatible with Denon Link HD, the sound localization becomes more precise, reproducing a clear and three-dimensional sound image.

Because this unit makes the integrated circuits operate while sharing the same clock with the AV receiver, the transmitted digital audio has less jitter.

This effect applies to any media audio source.

AV Pure Direct playback where there is no interference between audio and video

This unit outputs audio and video separately from two HDMI connectors.

This allows for clear signal transmission where there is little interference between signals.

Cautions on handling

• Before turning the power switch on

Check once again that all connections are correct and that there are no problems with the connection cables.

• Power is supplied to some of the circuitry even when the unit is set to the standby mode. When leaving home for long periods of time, be sure to unplug the power cord from the power outlet.

• Image persistence (image burn-in)

Do not leave still images of the disc menu, the unit menu, etc., displayed on the TV screen for long periods. This can result in image persistence (image burn-in) on the screen.

• About condensation

If there is a major difference in temperature between the inside of the unit and the surroundings, condensation (dew) may form on the operating parts inside the unit, causing the unit not to operate properly.

If this happens, let the unit sit for an hour or two with the power turned off and wait until there is little difference in temperature before using the unit.

Cautions on using mobile phones

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

Moving the unit

Be sure to remove a disc, turn off the power and unplug the power cord from the power outlet. Next, disconnect the connection cables to other system equipment before moving the unit.

About Care

- Wipe the cabinet and control panel clean with a soft cloth.
- Follow the instructions when using a chemical cleaner.
- Benzene, paint thinner or other organic solvents, as well as insecticide, may cause material changes and discoloration if brought into contact with the unit, and should, therefore, not be used.

• Sufficiently ventilate the place of installation

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

Cautions on handling for 3D video

Before viewing 3D video, refer to the considerations described in the instruction manuals and other documents for your 3D enabled TV and 3D compatible glasses together with this manual.

• Do not view 3D video if you have epilepsy or heart disease, if you have had photosensitivity reactions before, or when you do not feel well.

Doing so may aggravate the symptoms.

• When you view 3D movies, etc., take a break adequately, once per movie as a quide.

Prolonged viewing of 3D video may cause eye strain.

• Restrict viewing of 3D video to those aged six and over as a guide.

Children do not respond to tiredness and discomfort expressly, so they may suddenly get sick.

When children view 3D video, parents should keep their eyes open for signs of eye strain in children.

• Stop viewing 3D video when you see double images or you can not see 3D effects.

Viewing 3D video continuously in these conditions may cause eye strain.

• Stop viewing 3D video when you feel something wrong, get tired, or get sick.

Viewing 3D video continuously in these conditions may cause poor physical condition. Take a proper break.

• Pay attention to nearby people and objects.

Reaching for something without a sense of distance due to 3D video or moving your body suddenly in response to a 3D video image when you take it for a real object may cause injury to nearby people or cause damages to nearby objects resulting in injury. Keep fragile objects away from your viewing area.

 Wear your vision correction glasses or contact lens under the 3D glasses if you have nearsightedness, farsightedness, anisometropia, or astigmatism.

Viewing 3D video without correcting your vision may cause eye strain or decreased vision.

• Sit at a proper distance from the screen when you view 3D video.

Sitting too close to the screen may cause eye strain or decreased vision. Sit at a distance that is recommended in the instruction manual for your TV.



Basic version

Here, we explain the connections and basic operation methods for this unit.

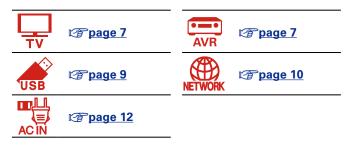
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Connections

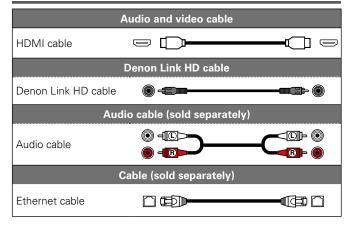
Important information

Make connections before using this unit.

To create a home theater that can play back higher quality video and audio by fully utilizing the capabilities of this unit and your video devices, connect this unit to each of your video devices with HDMI cables.



Cables used for connections



NOTE

- Do not plug in the power cord until all connections have been completed.
- When making connections, also refer to the operating instructions of the other devices being connected.
- Do not bundle power cords together with connection cables. Doing so can result in noise.

You can connect HDMI-compatible devices to the unit.

Connections with an HDMI cable offer the following benefits that can not be achieved with other connection methods.

• High quality playback by transmitting audio and video via digital signals

HDMI connections can transmit high definition video and high quality audio formats (Dolby Digital Plus, Dolby TrueHD, dts-HD, dts-HD Master Audio).

HDMI connections also convey information required for playback between devices. The information is used for copyright protection and TV resolution recognition, the HDMI control function, etc.

• Transmission of audio and video signals with a single HDMI cable

Previous connections require multiple audio and video cables, but HDMI connections require only a single HDMI cable to transmit audio and video signals. This allows wires in a home theater system, which tend to be complicated, to be more organized.

• Mutual control through the HDMI control function (page 34)

This unit and the HDMI device connected via HDMI can be linked to perform operations such as power control.

• 3D video playback, supported (2 page 6, 42).

• There is more than one version of HDMI standard. The supported functions and the performance vary according to the version. To enjoy these functions, the HDMI device connected to this unit also needs to use the same version of the standard. For the version of the HDMI standard on the device connected to this unit, see the device's manual.

• Some TVs do not support audio input via HDMI connections. For details, see your TV's manual.

□ Connecting this unit to a TV or AV receiver via HDMI connections (☞ page 7)

□ Connecting a TV ([™] page 7)

□ HDMI control functions (mpage 34)

□ HDMI (127 page 42)

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HDMI function

This unit supports the following HDMI functions:

□ About 3D function

This unit supports output of 3D (3 dimensional) video signals of HDMI.

To play back 3D video, you need a TV or AV receiver that provide support for the HDMI 3D function.

NOTE

- When playing back 3D video, refer to the instructions provided in the manual of your playback device together with this manual.
- This unit can overlay video on the OPTION setting and information bar while playing back 3D video contents. Note that for some 3D video contents this unit cannot overlay video on the OPTION setting and information bar.
- If 2D video is converted to 3D video on the television, the menu screen and status display on this unit are not displayed correctly. To view the menu screen and status display on this unit correctly, turn the television setting that converts 2D video to 3D video off.

□ HDMI control function (☞ page 34)

This function allows you to operate external devices from the unit.

NOTE

The HDMI control function may not work depending on the device it is connected to and its settings.

□ Deep Color (<u>© page 42</u>, <u>59</u>)

When a device supporting Deep Color is connected, use a cable compatible with "High Speed HDMI cable" or "High Speed HDMI cable with Ethernet".

High definition digital audio format

Copyright protection system

In order to play back digital video and audio such as BD-Video or DVD-Video via HDMI connection, both this unit and TV or AV receiver need to support the copyright protection system known as HDCP (Highbandwidth Digital Content Protection System). HDCP is copyright protection technology comprised of data encryption and authentication of the connected AV devices. This unit supports HDCP.

• If a device that does not support HDCP is connected, video and audio are not output correctly. Read the owner's manual of your television or AV receiver for more information.

Settings related to HDMI connections

Set as necessary. For details, see the respective reference pages.

□ System (🕼 page 38)

HDMI Control

HDMI Power Off Control

🗆 HDMI (🖙 <u>page 42</u>)

Color Space

HDMI Output

🗆 3D (🖙 <u>page 42</u>)

3D Output

Screen Size

• HDMI Deep Color

□ Audio Output (🍞 page 43)

• HDMI

HDMI connections

This section describes four methods for connecting this unit and a television, connecting directly or via an AV receiver.

Use an appropriate method depending on the television to be used. For the connection, use an HDMI cable.

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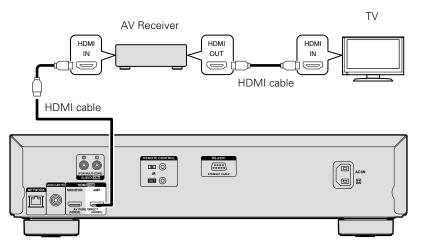
- Use only HDMI (High Definition Multimedia Interface) cable that bears the HDMI logo (genuine HDMI product). Using cable without the HDMI logo (non-genuine HDMI product) may result in abnormal playback.
- When outputting Deep Color or 3D, etc., we recommend you use "High Speed HDMI cable" or "High Speed HDMI cable with Ethernet" for enhanced high-quality playback.

Connecting this unit to a TV or AV receiver via HDMI connections

This method is for connecting the unit to an AV receiver. Connect an AV receiver to the HDMI OUT AMP(AUDIO) connector .

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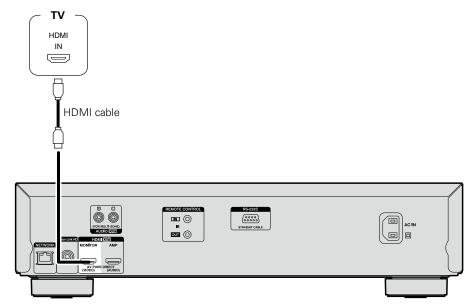
When an AV receiver is connected to the HDMI OUT MONITOR(VIDEO) connector, it may not function properly.



Connecting a TV

This connection is to connect the unit and a television directly. Connect a TV to the HDMI OUT MONITOR(VIDEO) connector.

When a TV is connected to the HDMI OUT AMP(AUDIO) connector, it may not function properly.



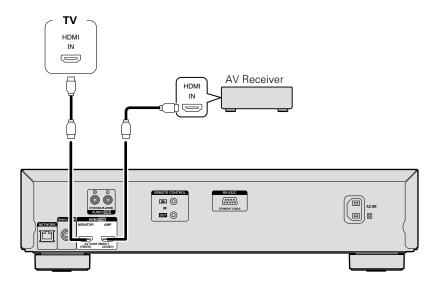
NOTE

• The unit can play both NTSC and PAL discs.

• This unit automatically determines whether the disc is NTSC or PAL . Note that the function to convert NTSC to PAL is not included.

AV Pure Direct connection

This shows how to make a connection in order to use the AV Pure Direct function.



The MONITOR(VIDEO) connector outputs video signals. The AMP(AUDIO) connector outputs audio and black video signals.

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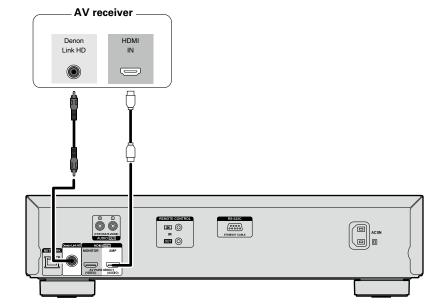
To use the AV Pure Direct function, you must change the Pure Direct setting. For how to change this setting, see (\bigcirc page 27).

Connecting an AV Receiver compatible with the Denon Link HD function

By making a Denon Link HD connection to a AV Receiver compatible with the Denon Link HD function, you can enjoy higher quality playback compared with when only the HDMI connector connection is made.

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- This unit automatically recognizes the Denon Link HD connection with an AV receiver. Therefore, you do not need to make special settings.
- When a correct Denon Link HD connection is made, the DENON LINK HD indicator on the front panel lights.
- For how to make and set the Denon Link HD connection for your AV receiver, see the owner's manual of your AV receiver.
- This unit does not support DENON LINK 2nd/3rd/4th.



Connecting to a device equipped with a DVI-D connector

Use an HDMI DVI-D conversion cable.

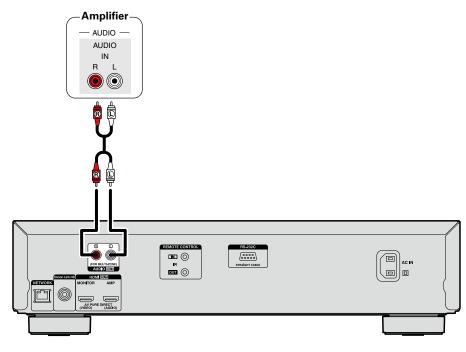
- The audio signal is not output. Make the appropriate audio connections for your devices.
- The video signal will be in RGB format.
- You cannot output to a DVI-D device that does not support HDCP (high-bandwidth digital content copyright protection system).
- Video may not be output depending on the combination of devices.

Connecting a 2-channel audio amplifier

This connection is for playback of audio of this unit, using a 2-channel audio device.

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For software recorded in multi-channel, an analog signal down-mixed to 2-channel is output.



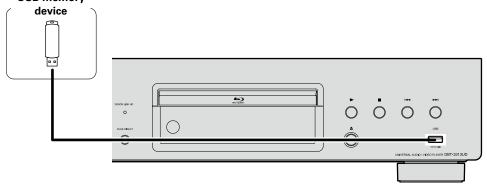
Connecting a USB memory device to the USB port

• You can enjoy music, video and photo stored on a USB memory device.

• For operating instructions see "Playing files (MEDIA PLAYER)" (page 19).

To connect a USB memory device to this unit.

USB memory



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- DENON does not guarantee that all USB memory devices will operate or receive power. When using a portable USB connection type HDD of the kind to which an AC adapter can be connected to supply power, use the AC adapter.
- If the "USB" indicator does not light, turn the power off, reinsert the USB memory device, and turn the unit on again.

NOTE

- USB memory devices will not work via a USB hub.
- It is not possible to use this unit by connecting the unit's USB port to a PC via a USB cable.
- Do not use an extension cable when connecting a USB memory device. This may cause radio interference with other devices.
- Be sure to turn the power off when inserting or removing a USB memory device. Data stored in the USB memory device or the memory of the unit may be damaged.
- Compatibility of all USB memory devices is not guaranteed.
- For reformatting a USB memory device, format it with FAT16 or FAT32.

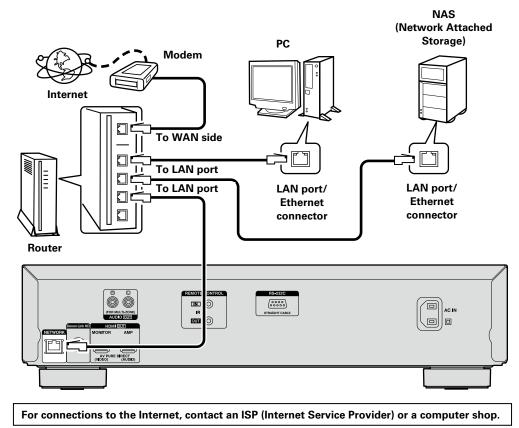
Connecting to a home network (LAN)

You can connect this unit to your home network (LAN) to perform various types of playbacks and operations as follows. Make network connections for this unit by carefully reading information on this page.

- Playback of network audio or video such as the media servers
- Playback of audio or video from online services
- BD-Live™

In addition, when an updated firmware becomes available for improving this unit, the update information is delivered from us to this unit over the network. You can then download the latest firmware. For more information, select "Firmware Update" (Page 39).

Network settings are necessary. See "Network" (17 page 40) for more information on network setting.



Required system

Broadband internet connection

\Box Modem

Device that connects to the broadband circuit and conducts communications on the Internet. A type that is integrated with a router is also available.

🗆 Router

When using this unit, we recommend you use a router equipped with the following functions: • Built-in DHCP server

- This function automatically assigns IP addresses on the LAN.
- Built-in 100BASE-TX switch When connecting multiple devices, we recommend a switching hub with a speed of 100 Mbps or greater.

□ Ethernet cable (CAT-5 or greater recommended)

- Use only a shielded STP or ScTP LAN cable which is available at retailer.
- The normal shielded-type Ethernet cable is recommended. If a flat-type cable or unshielded-type cable is used, other devices could be affected by noise.

- If you have an Internet provider contract for a line on which network settings are made manually, make the settings at "Network" (127 page 40).
- With this unit, it is possible to use the DHCP and Auto IP functions to make the network settings automatically.
- When using this unit with the broadband router's DHCP function enabled, this unit automatically performs the IP address setting and other settings.

When using this unit connected to a network with no DHCP function, make the settings for the IP address, etc., at "Network" (Page 40).

• When setting manually, check the setting contents with the network administrator.

NOTE

• A contract with an ISP is required to connect to the Internet.

No additional contract is needed if you already have a broadband connection to the Internet.

- The types of routers that can be used depend on the ISP. Contact an ISP or a computer shop for details.
- DENON assumes no responsibility whatsoever for any communication errors or troubles resulting from customer's network environment or connected devices.
- This unit is not compatible with PPPoE. A PPPoEcompatible router is required if you have a contract for a type of line set by PPPoE.
- Do not connect an NETWORK connector directly to the LAN port/ Ethernet connector on your computer.
- To listen to audio or video streaming, use a router that supports audio or video streaming.

Checking the network connection

After connection, test the Internet connection with "Connection Test" (Cppage 40) in "Network" on the SETUP menu.

 If "Network is FAILED." is displayed in the test, check the IP address with "Network" in "Information" on the SETUP menu, then set "DHCP" to "Manual" (2 page 40).

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- The unit can use the DHCP function to automatically set up the network.
- When setting up your network manually, after subscribing to an ISP, make the settings according to directions in "Network" on the SETUP menu (page 40).
- If you connect the unit to a network without a DHCP function, conduct IP address and other settings according to "Network" on the SETUP menu (Page 40).
- The unit does not support PPPoE. If you subscribe to a service that is set with PPPoE, a PPPoE compatible router is required.
- When setting up the network manually, consult with your network administrator for the settings to make.

Registering the connected device for the network

For playing files stored on a device connected via a network, the device must have the unit registered in advance.

• For registering, refer to the operation manual supplied with the server.

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For Internet connections, use an ISP (Internet Service Provider). Ask your local dealer for details.

NOTE

- Do not connect an NETWORK connector directly to the LAN port/Ethernet connector on your computer.
- It is necessary to subscribe to an ISP in order to connect to the Internet. If you already have a broadband connection, there is no need to subscribe anew.
- The router you can use varies with the ISP. For more information, contact your ISP or PC dealer.
- DENON assumes no responsibility whatsoever for any communication errors or problems resulting from customer's network environment or connected devices.

Checking the network connection

After you connect this unit to the router with a LAN cable, use the following procedures to check the network connection.

Press **POWER** () to turn on power to the unit.

• Switch the input source for the TV and AV receiver so that the video output from this unit is displayed on the TV screen.

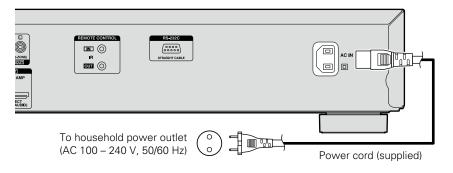
2 Press SETUP.

- 3 Use △∇< ▷ to select "General Settings" "Network" "Connection Test" (☞ page 40). The connection test starts.
- If the connection is not established, a message is displayed. Check the connection settings and connection environment.



Connecting the power cord

After completing all the connections, insert the power plug into the power outlet.



NOTE

• Do not plug in the power cord until all connections have been completed.

• Do not bundle power cords together with connection cables. Doing so can result in humming or noise.

Playback

- □ Media icons (mpage 13)
- □ Turn on the power (12) page 13)
- □ About playback information (mp page 14)
- □ Playing BD and DVD-Video (12) page 16)
- □ Playing Super Audio CD (☞ page 17)
- □ Playing CD (127 page 17)
- □ Playing DVD-Audio (mpage 18)
- □ Playing files (MEDIA PLAYER) (12 page 19)
- □ Playing YouTube video (mage 21)
- Playing NETFLIX video picture (
 <u>page 21</u>)

Operations enabled during playback (
page 22)

Settings enabled during playback (page 27)

NOTE

- The symbol 🚫 (prohibited mark) may appear on the top left of the TV screen during an operation. This means that the operation being conducted is prohibited.
- Depending on the disc, certain operations may not be as described in this manual. Check each disc owner's manual for more information.
- During playback of a 2-layered disc, pictures may stop momentarily. This happens when the 1st layer switches to the 2nd layer. This is not a malfunction.

Media icons

This unit can play back various kinds of media including video, audio, and photos. In this owner's manual, corresponding media icons are indicated next to titles for each operation description. The following table shows what content can be played back for each media.

	Video : Blu-ray Disc, DVD-Video, DivX plus HD, MPEG, AVI, WMV, AVCHD
E	Audio : Super Audio CD, CD, DVD-Audio, MP3, WMA, AAC, LPCM, FLAC
	Photo : JPEG, PNG

Turn on the power

Before using a remote control, insert the batteries (page 49 "Inserting the batteries").

1 Press POWER \textcircled{O} to turn on power to the unit. The power indicator flashes green and the power turns on.	OPPN/CLOSE POWER
Then the power indicator remains lit in green.	1 2 3 (FROG/)
• "LOADING" appears on the display, and disc information is read.	4 5 6 CLEAR 7 8 9 CALL

2 Turn on the power of the TV and AV receiver.

• The "NO DISC" message is displayed if a disc is not loaded.

3 Set the TV and AV receiver source to the unit input.

When power is switched to standby

Press either **POWER** O on the remote control, or O on the unit.

• The power indicator flashes in green. Then the indicator lights in red and the power is turned off.

[Power indicator status in "Energy Saving Mode" (Page 38)]

- Energy Saving Standby : Off
- Normal Standby : Red
- Quick Start : Red

ø

When "Auto Standby" is "On" (127 page 38), the following states are maintained for about 30 minutes, and then the power is automatically turned to standby.

- Disc not loaded
- Playback has stopped
- Stopped due to resume function

NOTE

During power standby, a slight amount of power is consumed. To totally cut off the power, remove the power cord from the power outlet.

About playback information

Press **INFO** to display the information bar display or media player display.

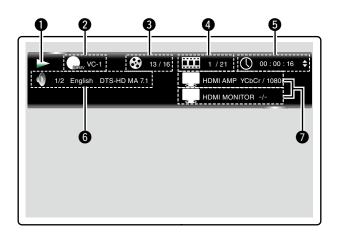
• To close the display, press **INFO** until it goes away.

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- Displayed content differs depending on the media being played.
- Also, the information displayed while playing and stopped differs.

This screen is displayed while video content is being played back.

Information bar display



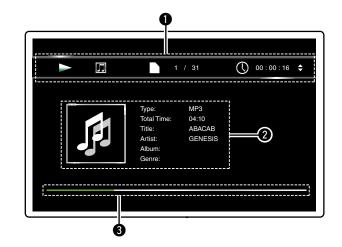
- Operation display
- **2** Video format display
- S Title / Group display
- Chapter / Track display
- Time display
- Audio format display
- HDMI output signal display

Media

Media player display



This screen is displayed when audio data is played.



Playback information display
 Media information display

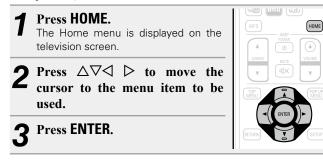
Seek bar

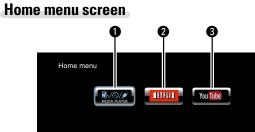
About playback information

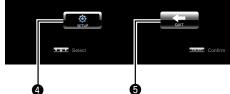
Home menu screen

The unit can play music, photos, video files stored in the USB memory device connected to the front panel of the unit or on the server connected via the network. For playback operation, use the Home menu screen.

Opening the Home menu screen







1 MEDIA PLAYER (<u>page 19</u>)

Music, photos, or video files on PC or NAS in the network or a USB memory device that is in the network or connected to this unit are played back.

2 NETFLIX (Ppage 21)

The NETFLIX contents are played.

3 YouTube (Proge 21)

The YouTube contents are played.

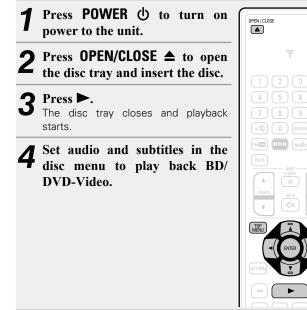
4 SETUP (<u>Page 35</u>)

The SETUP menu setup screen is displayed for setting the unit.

Ουιτ

The Home menu is closed.

Playing BD and DVD-Video



5 Press **TOP MENU** or **POP UP MENU** to display the menu

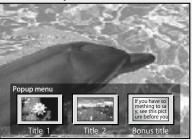
menu.

POWER

٦.	Top	menu	(Example)	

Title 1		Top menu
	Chapter 2	735
	Chapter 3	
	Chapter 4	
	Chapter 5	
•	Chapter 6	

Pop up menu (Example)



The Blu-ray disc has the pop-up menu function.

While playing back the main title of a Blu-ray disc that supports the pop-up menu, you can press **POP UP MENU** to select the audio, subtitles, chapters, etc. during playback.

Operations enabled during playback

(**P**page 22)

□ Settings enabled during playback

(**E**page 27)

• When playing back a hybrid BD disc, use the following procedures to select the playback layer before inserting the disc (27 page 53). (1) Press and hold **DISC LAYER** repeatedly to select "BD".

		→ Multi → Audio → BD —		
	Multi	Super Audio CD		
	Audio DVD-Audio			
	BD	BD Hybrid BD		
(2) Press DISC LAYER to select the playback layer.				
		BD 🔸 DVD		

BD **BD** layer DVD DVD layer

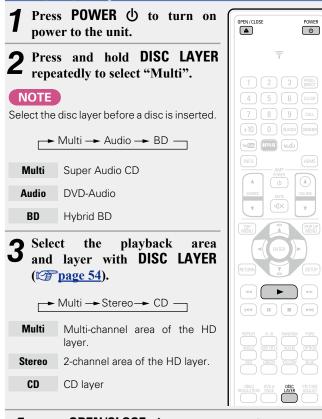
Multi-channel compressed audio signals (bitstreams) are recorded on some BD and DVD discs. This unit can output such compressed audio signals to the AV receiver as they are, and the AV receiver can then decode these signals.

Note that when playing back sub video recorded on a BD disc it is necessary for this unit to decode signals, so you must switch the audio output method. In this case, by referring to "Playing BD-Video compatible with Bonus View" (mpage 32), switch the BD audio mode before playback.

BD multi-channel audio is not output

- When stereo (2-channel audio) is selected in the disc menu audio settings, multi-channel audio is not output.
- Select a multi-channel setting (such as 5.1-channel).
- Make sure that the connected HDMI device supports the multichannel audio input.

Playing Super Audio CD



Press **OPEN/CLOSE** \triangleq to open the disc tray and insert the disc.

5 Press **>**.

The disc tray closes and playback starts for the selected area/ layer

The area/layer selected with **DISC LAYER** remains in the memory even when the power is turned off

- **Operations enabled during playback** (**E**page 22)
- **Settings enabled during playback** (**P** page 27)

ED	Pla

2

3

aying CD Press POWER () to turn on OPEN / CLOSE POWER power to the unit. 6 Press **OPEN/CLOSE \triangleq** to open Î the disc tray and insert the disc. Press ►. The disc tray closes and playback starts.

FI S

Operations enabled during playback (Kappage 22)

Settings enabled during playback (**P** page 27)

17

Playing DVD-Audio

	s POWER 也 to turn on er to the unit.	OPEN/CLOSE POWER
	s and hold DISC LAYER to tt "Audio".	T 1 2 3 (PROD/ DIPECT
	disc layer before a disc is inserted.	4 5 6 CLEAR 7 8 9 CALL +10 0 SEARCH DIMMER
Multi	Multi — Audio — BD — Super Audio CD	
Audio BD	DVD-Audio Hybrid BD	TOP MENU
	ct the playback part with CLAYER.	
Audio Video	Audio part Video part	REPEAT A-B RANDOM PURE
	s OPEN/CLOSE ▲ to open lisc tray and insert the disc.	ANGE SUBTINE ALORE OPTIME RED GREEN FOLLOW BULL NEDU DA LORE ALALIST NODA LORE ALALIST

5 Press ►. The disc tra The disc tray closes and playback starts for the selected part.

Playing bonus group

POWER

DVD-Audio discs may have a bonus group that can be played after entering a password.

□ If you enter the wrong password Select the bonus group again and enter the correct password.

Selecting still images

When a DVD-Audio disc has still images on it, you can choose the image to display.

Press **DVD A PAGE** during playback. The next still image is displayed.

	DVD A DISC PICTURE ADJUST
[DENON
	RC-1161

ED)

- Operations enabled during playback (12) page 22)
- **Settings enabled during playback** (**P**page 27)

Playing files (MEDIA PLAYER)



Files on a USB memory device, disc or a server connected to the unit are played using the Media Player of the unit.

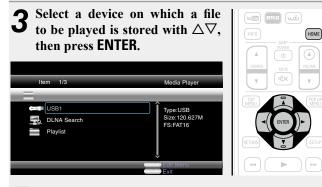
- Before operation, start the server software of the computer (Windows Media Player, etc.), and make settings for the server contents so that files can be played via the network.
- For details, refer to the operation manual supplied with the server software.

Press HOME.

The Home menu is displayed on the television screen.

2 Use $\Delta \nabla \triangleleft \triangleright$ to select "MEDIA PLAYER" then press ENTER.

Devices connected to the unit are listed on the menu screen of Media Player.



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- If the server connected to the unit is not displayed on the menu screen of Media Player, select "DLNA Search" on the screen with Δ∇, then press ENTER to search for the server.
- If the server is not displayed as a result of searching, check the connection of the server to the unit once again.
- If you perform such operations as adding or deleting a file on the connected DLNA server, information of the DLNA server may not be displayed. If this happens, turn off and on the unit's power again.
 Some servers cannot be connected to this unit.

4 Use $\Delta \nabla \triangleleft$ to select a folder to be played, then press **ENTER**.

Folders classified by file type are listed on the menu screen.

- Files are classified as follows:
- Video : DivX, MPEG, AVI, WMV Music : MP3, WMA, AAC, LPCM, FLAC
- Photo : JPEG, PNG
- AVCHD : AVCHD content*
 - * USB memory device only

Here, "Photo" is selected as an example.



5 Select a file to be played on the file list on the screen with $\triangle \nabla \triangleleft$, then press ENTER.

A slide show begins and still images are switched at 1-10 second intervals.



- With a large image file, the image may display for longer than the set time.
- For the file types that can be played, see "Files" (127 page 52).

Playing files (MEDIA PLAYER)

□ Changing the still image being played Press I◄◄, ►►I.

• Before playback or display of next image.

Pausing the display

Press II.

To cancel pause, press ►.

□ Changing interval of slide show





Changing the still image orientation

Press $\Delta \nabla \triangleleft \triangleright$.

- Δ : Invert ∇ · Mirror
- V : Mirror
- \triangleleft : Rotate counterclockwise
- \triangleright : Rotate clockwise

Change the media for playback of a file

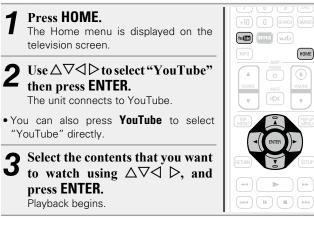
When the source of a file for playback is changed to another media, press \triangleleft to return to step 3 and select the media to be played.

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- Playback video or audio may be interrupted or playback may be disabled, depending on the connection environment of devices connected via the network.
- If a file cannot be played on the unit, it may be played by converting the format on the connected device.
- The connected device cannot play data from the unit.
- It may require a little time to start playback, depending on the size of a file to be played.
- For the file types that can be played, see "Files" (mpage 52).

Playing YouTube video

The operation for the video site YouTube is described here.



About YouTube

- YouTube is a video file-sharing service operated and managed by YouTube Inc.
- The unit can play video hosted by YouTube.
- YouTube and the YouTube logo are the registered trademarks of Google Inc.
- The YouTube content is independently managed by YouTube, LLC.
- YouTube content may include information that may be deemed inappropriate.

- This unit must be connected to a working Internet connection in order to watch YouTube. For seamless playback of YouTube video contents, the unit needs effective speed greater than 6 Mbps for HD video contents, and greater than 2 Mbps for SD video contents, between the unit and YouTube server.
- We recommend using a broadband line such as FITH (optical), ADSL, or CATV. The video content may not be displayed correctly, and / or may not be played seamlessly depending on the usage environment or communication environment, or the connection status of the line, or on the traffic status of the line.
- You cannot connect to YouTube via a proxy.
- To set the language to be displayed on the screen, configure the settings in "Language"-"BD Player Menus" (Page 39) in the menu.

NOTE

- If buttons other than △∇
 or ENTER are pressed while watching YouTube, the button may not work, or a different function may operate.
- Some contents cannot be played using this unit.
- Available service details and screens may change or exit without prior notice.
- We cannot accept any responsibility for the content supplied by YouTube.
- If you have any inquiries about YouTube, contact YouTube through the official homepage <u>http://www.youtube.com</u>.

Playing NETFLIX video



The operation for the NETFLIX streaming service is described here.

Press HOME.

The Home menu is displayed on the television screen.

2 Use $\Delta \nabla \triangleleft \triangleright$ to select "NETFLIX" then press ENTER.



 You can also press **NETFLIX** to select "NETFLIX" directly.

3 Use $\triangle \nabla \triangleleft \triangleright$ to select highlight a movie on your instant Oueue.

a movie on your instant Queue.

Press ENTER a title that you want to watch.

The second menu of title will appear.

5 Select "play" on the second menu and then press ENTER.

Retrieving of title will be started. Press Δ to return to your instant Queue.

- For using "NETFLIX", Internet connection is required. It is recommended to use a broadband line (effective speed 6 Mbps or more) such as FITH (optical), ADSL or CATV, etc.
- Even if the line speed is sufficient to make it viewable, pictures may be unstable, interrupted, or not viewed depending on the usage environment, communication environment, connecting line conditions, etc.
- The connection of NETFLIX may not be connected via proxy.
- For the usage conditions for NETFLIX, contact NETFLIX.

Operations enabled during playback

Playback (12 page 13)

- □ Media icons (mpage 22)
- □ Pausing (12 page 22)
- □ Stopping ([™] page 22)
- Skipping to a desired chapter/track/file
 (
 <u>page 23</u>)
- □ Fast-forward/Fast-reverse (127 page 23)
- □ Finding specific sections with search modes (© page 23)
- Memorizing locations to replay (Marker function)
 (
 <u>page 24</u>)
- Playing repeatedly (Repeat playback) (page 24)
- Playing repeatedly between specified points (A-B repeat) (<u>page 24</u>)
- Playing in random order (Random playback) (<u>page 25</u>)
- Playing in your preferred order (Program playback) (<u>page 25</u>)
- □ Playing images frame by frame (mpage 25)
- □ Slow-forward/Slow-reverse ([™] page 26)
- □ Switching the audio (mp page 26)
- **Changing the subtitle** (<u>Page 26</u>)
- □ Switching the angle (
 page 26)

Settings enabled during playback (page 27)

Media icons

This unit can play back various kinds of media including video, audio, and photos. In this owner's manual, corresponding media icons are indicated next to titles for each operation description. The following table shows what content can be played back for each media.

Video : Blu-ray Disc, DVD-Video, DivX plus HD, MPEG, AVI, WMV, AVCHD
Audio : Super Audio CD, CD, DVD-Audio, MP3, WMA, AAC, LPCM, FLAC

Photo : JPEG, PNG

NOTE

Operations may not be available depending on the played back media or contents.

Pausing

Press II during playback.

The II indicator will light on the display.

Resume normal playback by pressing ►.

Stopping

Press during playback. Playback stops.



□ About the resume function



When playback is stopped, the stop position is memorized.

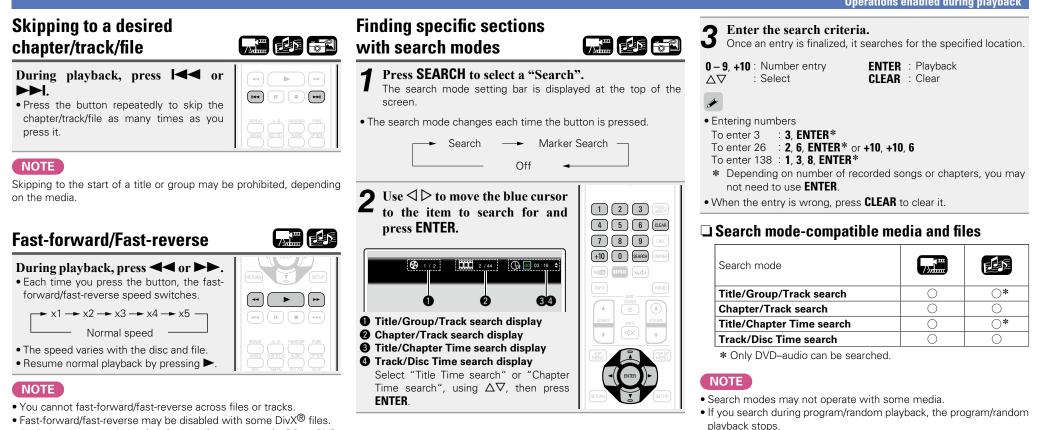
• The ► indicator flashes on the display. To resume play from the stop position, press ► while stopped.

To cancel the resume function

- Perform one of the following operations.
- Press while stopped.
- Open the disc tray.
- Change the playback media mode with **HOME**.

NOTE

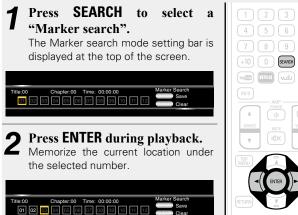
- The resume function does not work with disc menu playback or BD-J (Blu-ray Disc Java) compatible discs.
- The resume function does not work depending on the disc.



• Audio is not output during fast-forward/fast-reverse of a BD or DVD.

Memorizing locations to replay (Marker function)

You can attach a marker to a location you want to view or hear again, so that playback begins at that location.



<u>л</u>

CLEAR

- Up to 12 locations can be memorized.
- The registered number is displayed in white letters.
- The elapsed plaving time at the set location is displayed.

To play back memorized locations

Use $\triangleleft \triangleright$ to select the marker number, then press **ENTER**.

□ To erase markers

Select the marker number that you want to erase and press **CLEAR**.

Save

<u>s</u>

- The marker function does not work depending on the media.
- Subtitles may not appear depending on the locations you have memorized.
- The markers you have set will be erased if you turn the power to standby or eject the disc.

Playing repeatedly (Repeat playback)

Press **REPEAT** during playback. The repeat mode icon is displayed at the top of the screen.



• The repeat mode changes each time the button is pressed.

Chapter repeat or Track repeat		Title repeat or All repeat	
	Off		

• To resume normal playback, press REPEAT, and select "Repeat Off".

□ About repeat modes

The available repeat modes vary depending on the disc or file you are playing.

Conten	ts	E	
Title repeat	0		
All repeat		0	0
Chapter repeat	0		
Track repeat		0	0

NOTE

- Some repeat modes may not be accessible depending on some media.
- With some media, even when set to repeat playback, the disc may not return to the start of title or chapter, and may advance to the next scene.
- Repeat playback is not available during A-B repeat playback.

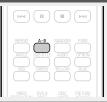
Playing repeatedly between specified points

(A-B repeat)

During playback, press **A** – **B** at the desired starting point (A).

The "A-" indicator will light on the display.

• To cancel the starting point (A), press CLEAR.



AT ED

Press A – B again at the desired ending point (B).

- The "B" indicator will light on the display, and A-B repeat playback will start.
- To resume normal playback, press **A B**, and select "Repeat Off".

NOTE

- You cannot skip a title/file with A-B repeat.
- If you perform a search operation during A-B repeat playback, A-B repeat playback is cancelled.
- A-B repeat playback may not be available with some scenes.
- A-B repeat playback may not be available with some DivX[®] files.
- A-B repeat playback is not available with BD-J (Blu-ray Disc Java) compatible discs.

Playing in random order (Random playback)

Press RANDOM during playback. The "RAND" lights on the display and "Random Mode" is displayed on the screen.



FED

Resuming normal playback

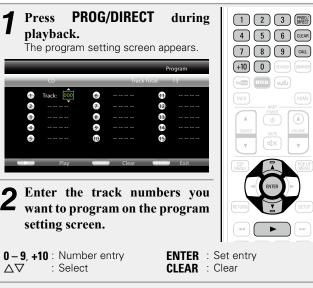
Press **RANDOM** during random playback.

NOTE

Random playback may not be available with some media.

Playing in your preferred order (Program playback)

You can program up to a maximum of 15 tracks.





Playback begins in the programmed order. The "PROG" indicator lights on the display.

Checking the program contents

Press CALL.

FED

• The programmed tracks are shown on the display of the unit each time the button is pressed.

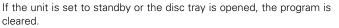
Erasing programmed tracks one by one

Press **CLEAR** on the program setting screen.

Resuming normal playback

- Display the program setting screen and press **PROG/DIRECT**.
- The "PROG" indication lights off on the display.

ø



NOTE

The programmed tracks can be set only for playback with CD and Super Audio CD.

Playing images frame by

frame

Press II while paused.

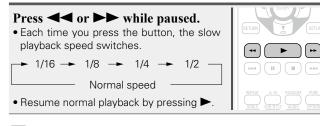
The disc advances frame by frame each time the button is pressed.
Resume normal playback by pressing ►.



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Frame by frame reverse playback is not available with the unit.

Slow-forward/Slow-reverse



Audio is not output during slow playback.

Switching the audio



With discs and files that have multiple audio track recording, you can change the audio during playback.

Press AUDIO during playback. The audio number currently being played is displayed.	
• Each time you press the button, the audio switches.	ANGLE SUB TITLE
1/2 English DTS-HD MA 7.1	RED GREEN VELLOW NED GREEN VELLOW RESOLUTION PAGE LISC RESOLUTION PAGE (LAYER

 If multiple audio items are recorded, the current audio number/ number of recorded audio items is displayed.

NOTE

- Depending on the media, audio switching may be restricted to operation of the disc menu. In this case, switch the audio on the disc menu.
- With a DivX[®] file, "MP3" or "Dolby Digital" audio formats and the number of recorded audio modes are displayed. "---" appears for audio other than these.
- With DTS-CD (5.1 music disc), you cannot switch audio modes.

Changing the subtitle

During playback of a disc or file with recorded subtitles, you can switch the subtitles on/off as well as the subtitle language.

Press SUBTITLE during playback. The subtitle number currently being played is displayed.

• Each time you press the button, the subtitle switches.



- If contents do not include subtitles, \bigotimes (prohibited mark) is displayed.
- Depending on the media, subtitle switching may be restricted to operation of the disc menu. In this case, switch the subtitles on the disc menu.
- With a DivX[®] file, the currently playing subtitle number and number of recorded subtitles are displayed; the language option is not displayed.

Switching the angle

During playback of a BD or DVD-Video recorded with several camera angles, you can change the angle.

Press ANGLE during playback. The angle number for current playback is displayed.	
• Each time you press the button, the angle switches.	ANGLE A-B RANDOM PURE
Angle: 1/2	

NOTE

►

Angle changing may be restricted, depending on the disc.

Settings

Settings enabled during playback

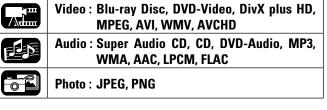
Playback (12) page 13)

Operations enabled during playback (page 22)

- □ Media icons (mppage 27)
- □ Changing the brightness of the display (Dimmer control) (12 page 27)
- Playing high-quality audio (Pure direct function) (page 27)
- □ Video resolution (☞ page 28)
- □ Adjusting the picture quality (Picture control) (℃ page 29)
- □ OPTION setting (☞ page 30)

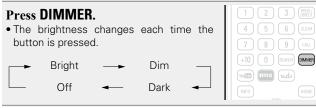
Media icons

This unit can play back various kinds of media including video, audio, and photos. In this owner's manual, corresponding media icons are indicated next to titles for each operation description. The following table shows what content can be played back for each media.



Changing the brightness of the display (Dimmer control)

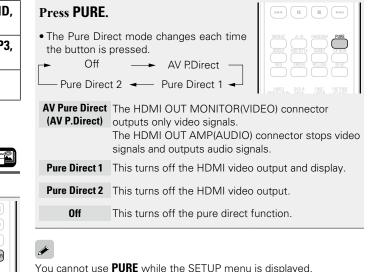
The brightness of the display can be changed.



Playing high-quality audio (Pure direct function)



This enables you to play high quality audio by stopping the video signal, etc., output, and outputting the high quality analog audio signal.



Video resolution

This section is for making the settings for video output resolution. Set them depending on the connected television.

Press VIDEO RESOLUTION.

- The resolution is changed as shown below each time **VIDEO RESOLUTION** is pressed.
- You cannot set resolution individually for each HDMI output.
- When you press and hold **VIDEO RESOLUTION** with the resolution appearing on the display, "HDMI INIT" appears on the display and the setting returns to the default.



• The default settings is underlined.



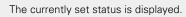
- If the video resolution is not set to "Auto", set it to correspond with the resolution of your television/AV receiver.
- Images will not be projected normally if the television/AV receiver resolution and this unit's output resolution do not match.
- Audio and video will be temporarily interrupted if the power of the connected device currently playing is turned off, or the input is switched.
- When you change the video resolution of the unit, it takes a few seconds up to about 10 seconds for validation between the unit and the connected device. Audio/video is not output during this period.

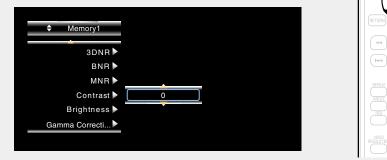
Settings enabled of	luring p	layback
---------------------	----------	---------

Adjusting the picture quality (Picture control)

You can adjust the picture quality to your liking. The adjusted values can be stored in Memory 1 through Memory 5.

Press **PICTURE ADJUST**. 1





Press $\Delta \nabla$ to select a memory number to be used, and then press ENTER. 2

3 Press $\Delta \nabla$ to select an item then press **ENTER** or \triangleright .

Change the setting with $\Delta \nabla$. 4

• Refer to the table on the right for information on the different settings.

□ To finalize picture adjustments

Press PICTURE ADJUST after adjusting.

• The pop up menu of the picture adjustments is disappeared on the screen.

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The picture adjustment settings are retained in memory even after the power is turned off.

NOTE

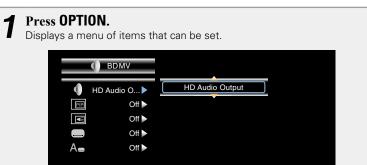
- During 3D playback, you cannot adjust "Video resolution" (@page 28) or "Adjusting the picture quality (Picture control)" (page 29).
- You cannot set picture adjustments individually for each HDMI output.

Setting items	Setting contents	Default
3DNR Reduces noise in the entire picture.	0 - +3	0
BNR Reduces the block noise generated by digital processing.	0 - +3	0
MNR Reduces the noise around the outline of an object generated by digital processing.	0 - +3	0
Contrast Adjusts picture contrast.	-6 - +6	0
Brightness Adjusts picture brightness.	0 - +12	0
Gamma Correction Changes the amount of gamma correction to adjust overall brightness of a picture. Make Dark(-) / Bright(+) section easier to see.	-4 - +4	0
Sharpness Adjusts picture sharpness for the higher frequency range.	-6 - +6	0
Hue (color tone) Adjusts the green and red color balance.	-6 - +6	0
Chroma Level Adjusts the color density.	-6 - +6	0

PICTURE

OPTION setting

You can make various OPTION settings during playback. The setting menu is displayed at the left of the screen.





2 Select a setting item using $\Delta \nabla$, and then press **ENTER** or \triangleright .

3 Use $\Delta \nabla$ to select a setting, and then press ENTER.

4 Press OPTION. The setting screen is disappeared.

BD Audio Mode

0	
Setting items	Setting details
BD Audio Mode Switch Blu-ray Disc audio playback mode.	<u>HD</u> Audio Output : Outputs high-definition signals such as Dolby TrueHD, Dolby Digital Plus, and DTS-HD as high-quality bitstreams with no change for listening.
	Mix Audio Output : Outputs a mix of primary audio/interactive audio/ secondary audio.
	NOTE
	With "HD Audio Output", the interactive audio or secondary audio cannot be available.
Secondary Video	 Off : Does not display secondary video (Picture-In-picture). 1/X* : Displays the first secondary video. 2/X* : Displays the second secondary video. X/X* : Displays the X th secondary video.
	 "X" is the number of secondary video recorded and differs depending on the disc (page 32 "Playing BD-Video compatible with Bonus View").
Secondary Audio	 Off : Does not select the secondary audio. The interactive audio is also set to off. 1/X* : Selects the first secondary audio. 2/X* : Selects the second secondary audio. X/X* : Selects the X th secondary audio.
	 "X" is the number of secondary audio recorded on a disc and differs depending on the disc.
	NOTE When "BD Audio Mode" is set to "Mix Audio Output", secondary audio is output.
Secondary Subtitle	 Off : Does not select the secondary subtitle. 1/X* : Selects the first secondary subtitle. 2/X* : Selects the second secondary subtitle. X/X* : Selects the X th secondary subtitle.
	 "X" is the number of secondary subtitle recorded on a disc and differs depending on the disc.
Subtitle Style	Switches the subtitle style recorded on a disc.



Advanced version

This chapter describes how to set the HDMI control that links devices connected via HDMI to this unit, how to play back sub contents of Blu-ray discs, and other detailed settings.

- Convenient functions 27 page 32
- How to make detailed settings 27 page 35

Convenient functions

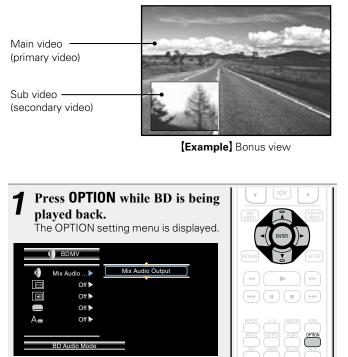
Playback (12 page 13)

Settings (<u>page 27</u>)

- □ Playing BD-Video compatible with Bonus View (12) page 32)
- □ Playing back BD-Live[™] (127 page 33)
- □ HDMI control functions (mp page 34)

Playing BD-Video compatible with Bonus View

With a BD disc that is compatible with bonus view (picture-in-picture), in addition to the main video (primary video) stored on the disc, you can play back the video director's commentary and simultaneously ongoing sub-story, as well as sub-video such as alternative camera angles (secondary video).



2 Use $\triangle \nabla$ to select "BD Audio Mode", then press ENTER or \triangleright .

3 Switch the "BD Audio Mode" setting to "Mix Audio Output".
4 Press <\[and then △\(\nabla to select the secondary video, and press ENTER or \(\nabla .)\). Secondary videos that can be played back are displayed.
5 Use △\(\nabla to select the desired secondary video.)

Off ← 1/X ← 2/X ← X/X

- Off Does not display Secondary Video.
- 1/X Displays the first Secondary Video.
- 2/X Displays the second Secondary Video.
- X/X Displays the X th Secondary Video.
- "X" is the number of Secondary Videos recorded and differs depending on the disc.

- For using Bonus View, some BD discs require built-in memory or external memory.
- The unit has a built-in memory. If the memory capacity used for Bonus View will exceed the remaining built-in memory capacity, using a USB memory device of 1 GB or more is recommended.
- The playback method, etc., is determined by the disc, and varies depending on the disc. Refer to the operation guide of the relevant disc.

Playing back BD-Live[™]

For some Blu-ray discs, you can access dedicated sites for BD-Live™ contents on the Internet from the disc menu. In this case, you can download BD-Live™ contents on the Internet to this unit for playback. To play back BD-Live™ contents, this unit must be connected to the Internet. Establish the Internet connection by referring to "Connecting to a home network (LAN)" (Correspondent 10).

Select the save location of contents

Select the location to which BD-Live[™] contents are downloaded. You can select to download to either the internal memory of this unit or your USB memory device.

By default the contents are saved in the internal memory of this unit. To check the available internal memory space, see "BD DATA Information" (Coppage 39) in the SETUP menu.

Press SETUP. The menu screen is displayed.



2 Use △▽⊲ ▷ to go to "General Settings" – "System" – "BD DATA Utility" – "BD DATA Memory" (127 page 39) and then press ENTER.

3 Use $\Delta \nabla$ to select the save location and then press ENTER.

- Internal Saves BD-Live[™] content files in the internal memory of this unit.
- External Saves BD-Live[™] content files in your USB memory device.
- If you select "External", connect your USB memory device to the USB port (127 page 9).

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To check the available internal memory space, see "BD DATA Information" (Cppage 39) in the SETUP menu. To download contents larger than the available space, use the USB memory device.

Playing back BD-Live[™] contents

Before these steps, connect this unit to the Internet.

1 Press POWER (1) to turn on power to the unit.
2 Press OPEN/CLOSE ▲ and insert BD that is compatible with BD-Live TM .
3 From the disc menu, select the BD-Live [™] playback icon and press ENTER. Contents are downloaded from the BD-Live [™] download site and played back.
• Operations vary depending on the disc used. Follow the displayed guidance.

Depending on your network environment, it may take a long time to download or the download may not be completed. See "Connecting to a home network (LAN)" (<u>Page 10</u>) for required specifications for your Internet connected devices.

NOTE

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Insert or remove a USB memory device while the power is in standby. If you insert a USB memory device while the power is ON, the USB memory device may not be access.

33

HDMI control functions

The HDMI connection not only transmits video and audio but also convey information between the connected devices. The HDMI control function conveys control signals between the devices to enable them to link with each other. This is a useful function. For example, when you perform a power-related operation on one device, then the corresponding power operation is also performed on other devices connected with that device.

Operations possible by HDMI control

- Turning off the TV's power turns the unit's power to standby.
- Operating the unit via the TV's remote control. (When the TV's remote control has player operation buttons)

Setting procedure

- **1** From "HDMI AMP On" or "HDMI MONITOR On", select the HDMI output connector for which
- you want to enable the HDMI control function.
 - SETUP menu "System" "HDMI Control" (Page 38)
 - You cannot enable the HDMI control function for both HDMI outputs.simultaneously.lt is selectable.
- **2** Turn on all devices that are connected to the HDMI output connector set in step 1.
- **3** Set the HDMI control function for all devices connected by HDMI cable.
- Please consult the operating instructions for the connected devices to check the settings.
- Carry out steps 2 and 3 should any of the devices be unplugged.
- **4** To ensure that the unit's HDMI video output is projected on the TV screen, change the input function of the TV and AV receiver.
- **5** When you turn the TV's power to standby, check that the power of the unit and AV receiver also goes on standby.

If the HDMI control function does not operate properly, check the following points.

- Is the TV or AV receiver compatible with the HDMI control function?
- Are the HDMI control function settings of all equipment correct? (Step 3)
- After setting, did you add another HDMI device connection or make any changes in the connections? If so make the settings again.
- Is HDMI control enabled output correct assignment?
- Is the unit in Energy Saving Standby?

NOTE

- Some functions may not operate depending on the connected TV or AV receiver. Check the owner's manual of each device for details beforehand.
- When "HDMI Power Off Control" (<u>Page 38</u>) is set to "Off", the unit does not go to standby even if the connected device is in the standby mode.

How to make detailed settings

Menu map

By default, this unit has recommended settings defined. You can customize this unit based on your existing system and your preferences. Pressing **SETUP** displays the SETUP menu. From this menu, you can move to various setting screens.



General Settings

Setting items	Detailed items	Description	Page
System	Screen Saver	Sets the screensaver.	<u>38</u>
	Auto Standby	This setting automatically sets the power to standby.	<u>38</u>
	Energy Saving Mode	Sets the standby mode.	<u>38</u>
	HDMI Control	Links the unit and a device connected with an HDMI cable that supports HDMI control.	<u>38</u>
	HDMI Power Off Control	Links the power of the unit and a device connected with an HDMI cable that supports HDMI Control	<u>38</u>
	Reset	All settings including audio mode and picture quality are set to default settings.	<u>38</u>
	Firmware Update	Updates the firmware of the unit via the Internet.	<u>39</u>
	Update Notification	Displays a notification message when there is any firmware available for update.	<u>39</u>
	BD DATA Utility	Sets the save location for downloaded BD-Live™ data or initializes the internal memory.	<u>39</u>
Language	BD Player Menus	Sets the BD player menus language.	<u>39</u>
	Disc Menus	Sets the language used for BD or DVD menus.	<u>39</u>
	Audio	Sets the audio language used for BD and DVD playback.	<u>39</u>
	Subtitles	Sets the subtitle language used to play BD or DVD.	<u>39</u>
Parental Controls	Change Password	Sets the password for changing the parental control level and parental control country code of BD and DVD.	<u>40</u>
	BD Rating Level	Sets the parental level for playing BD.	<u>40</u>
	DVD Rating Level	Sets the parental level for playing DVD.	<u>40</u>
	Country Code	Sets the standard country parental control. Applies the parental level of the set country.	<u>40</u>

Setting items	Detailed items	Description	Page
Network	Internet Connection	Sets whether the Internet connection is to be used or not.	<u>40</u>
	Information	Displays the network information such as the IP address, subnet mask, etc.	<u>40</u>
	Connection Test	Performs the network connection test.	<u>40</u>
	DHCP	Sets how to perform network configuration, automatically or manually.	<u>40</u>
	BD-Live Connection	Limits the access rights for the content on a BD- Live™ connection.	<u>41</u>
	Proxy Setting	Setting for connecting to the Internet via a proxy server.	<u>41</u>
Others	Angle Mark	For making settings for the angle mark displayed in playback.	<u>41</u>
	PIP Mark	For making settings for the PIP mark displayed in playback.	<u>41</u>
	Secondary Audio Mark	For making settings for the secondary audio mark displayed in playback.	<u>41</u>
	DivX Registration	Displays the DivX [®] registration code.	<u>41</u>
	Remote ID (Unit side)	Sets the remote control ID.	<u>41</u>
	Legacy Remote	Sets not to receive signals from remote controls for DENON DVD players.	<u>41</u>
	Internet Streaming	Resets the Internet Streaming (NETFLIX) registration information on this unit.	<u>41</u>



Video Settings

Setting items	Detailed items	Description	Page
TV	Aspect Ratio	Set the screen type and display mode of the TV.	<u>42</u>
	Wallpaper	Setting for displaying the background when playback is stopped.	<u>42</u>
	Progressive Mode	Sets an appropriate progressive conversion mode for the source video material.	<u>42</u>
HDMI	Color Space	Sets the video signal system to be output from HDMI.	<u>42</u>
	HDMI Deep Color	Sets the HDMI terminal to output Deep Color. Expands the color depth (number of used colors) of the HDMI video signal, enabling playback with more natural colors and free of streaking.	<u>42</u>
	HDMI Output	Makes the output setting for the HDMI output connector.	<u>42</u>
3D	3D Output	Sets up video outputs for 3D video playback.	<u>42</u>
	Screen Size	Sets up the screen size of your 3D enabled TV.	<u>42</u>



System Information

Setting items	Description	Page
MAC	Displays the MAC address.	
Address		



Setting items Detailed items Description

Audio	HDMI	Sets the audio format output from the HDMI	<u>43</u>
Output		output connector.	
	Dynamic Range	Compresses the dynamic range of Dolby	<u>43</u>
	Compression	TrueHD/Dolby Digital Plus/Dolby Digital Audio.	

Page

SETUP menu operation

Press SETUP. 1

- The SETUP menu is displayed on the TV screen.
- The SETUP menu can also be displayed from "SETUP" in the home menu (CP page 15).

Press $\Delta \nabla \triangleleft \triangleright$ to select the 2 Z menu to be set or operated.



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• To return to the previous item, press \triangleleft .

3 Press ENTER to enter a setting.

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Text colors of selected items of the SETUP menu are as follows:

- White : These items can be selected.
- Gray : These items cannot be selected.

NOTE

The resume function is activated, you may not make correct settings.

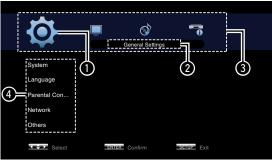
Exiting the SETUP menu

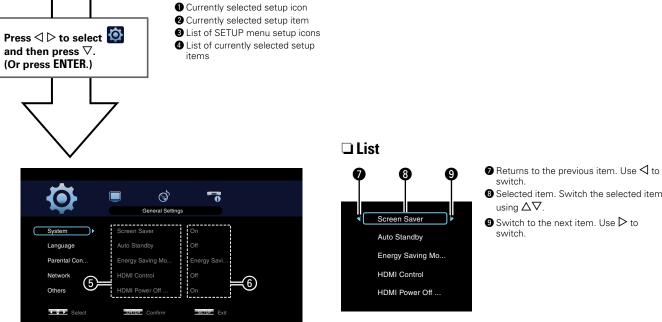
- Press **SETUP** while the SETUP menu is displayed.
- The SETUP menu display disappears.

Examples of SETUP menu screen displays

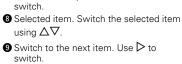
Typical examples are described below.

□ Menu selection screen (Top menu)





5 List of items of currently selected advanced settings 6 Currently selected advanced settings







Settings for system, language, parental lock, network, etc. can be made.

Power indicator status in this mode : Red

System	Default settings are underlined.	Setting items	Setting details
Set the following settings. • Screen saver settings • Power saving mode setting • HDMI control function setti • Initialize settings • Firmware update from the I • BD-I ive™ download data si	ngs	HDMI Control Links the unit and a device connected with an HDMI cable that supports HDMI control.	 Off : Disables the HDMI control function. HDMI AMP On : Links with the device connected to the HDMI AMP output. HDMI MONITOR On : Links with the device connected to the HDMI MONITOR output. Image: Work of the HDMI control function to operate, it is necessary for the unit or
Setting items	Setting details		HDMI-compatible TV connected to the unit to have an HDMI connection • Refer to "HDMI control functions" (137 page 34) for more information
Screen Saver Sets the screensaver.	<u>On</u> : The screensaver function activates when stop or pause status continues for about three minutes. Off : Does not use the screensaver.		 After the "HDMI control functions. After the "HDMI Control" setting has been changed, always turn off the power to the connected equipment and then turn it back on.
Auto Standby This setting automatically sets the power to standby.	 <u>On</u>: This setting automatically sets the power to standby if any of the following states continues for approximately 30 minutes. Disc not loaded Playback stopped Stopped due to the resume function 	HDMI Power Off Control Links the power of the unit and a device connected with an HDMI cable that supports HDMI control.	
Energy Saving Mode Sets the standby mode.	Off : Does not use the auto power mode. Energy Saving Standby : This is the lowest power consumption mode. During standby, operations are not accepted via HDMI control. Power indicator status in standby mode : Off Normal Standby : During standby, operations are accepted via HDMI control. Power indicator status in standby mode : Off Normal Standby : During standby, operations are accepted via HDMI control. Power indicator status in standby mode : Red Quick Start : Startup time is reduced but more power is consumed in this mode. HDMI control operations are accepted.	Reset All settings including audio mode and picture quality are set to default settings.	Cancel : Does not initialize. OK : Executes initialization.

Setting items	Setting details	Language
Firmware Update Updates the firmware of the	Check for Update : Checks if a newer version of firmware exists. Press ENTER to see the	Set the playbac
unit via the Internet.	approximate amount of time required for the update. If the firmware is already updated to the latest version, the firmware updating operation starts after you press ENTER . When the update starts, a progress bar and the remaining time required to complete the update are displayed on the television screen.	Setting BD Player Me Sets the BD p language.
Update Notification Displays a notification message when there is any firmware available for update.	When the update completes, the units turns to the normal state. <u>On</u> : The message for updating is displayed on a television screen. Off : The message for updating is not displayed on a television screen.	Disc Menus Sets the langu BD or DVD me Audio Sets the audic used for BD a
BD DATA Utility Sets the save location for downloaded BD-Live™ data or initializes the internal memory.	 BD Data Information : Displays the available internal memory space on this unit or the free space on the connected USB memory device. FMT BD DATA : Initializes BD DATA for the internal memory of this unit or the connected USB memory device. This operation deletes all data. When a USB memory device that 	playback. Subtitles Sets the subti used to play B
	 stores the data is connected, never execute this operation. BD DATA Memory : Selects the save location for BD-Live[™] download contents. Internal : Saves in the internal memory of this unit. External : Saves in the USB memory device connected to this unit. To download files larger than the available internal memory space on this unit, select "External". 	* Press More

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Default settings are underlined.

back audio, subtitles, and menu display languages.

Setting items	Setting details
BD Player Menus Sets the BD player menus	<u>English</u> / Deutsch / Français / Italiano / Español / Nederlands / Svenska / Русский / Polski
language.	When DivX [®] subtitles or media player screen (<u>Page 14</u>) data during MP3 playback are not displayed correctly, select a language you want to display in for "BD Player Menus" in the SETUP menu.
Disc Menus Sets the language used for BD or DVD menus.	English / French / Chinese / Spanish / German / Italian / Dutch / Portuguese / Danish / Swedish / Finnish / Norwegian / Russian / Korean / Japanese / More*
Audio Sets the audio language used for BD and DVD playback.	English / French / Chinese / Spanish / German / Italian / Dutch / Portuguese / Danish / Swedish / Finnish / Norwegian / Russian / Korean / Japanese / More*
Subtitles Sets the subtitle language used to play BD or DVD.	<u>Off</u> / English / French / Chinese / Spanish / German / Italian / Dutch / Portuguese / Danish / Swedish / Finnish / Norwegian / Russian / Korean / Japanese / More*
	• Off : No subtitles displayed.

pre to select a language other than those displayed in the list.

Default settings are underlined.

Parental Controls

Default settings are underlined.

Set the BD and DVD playback settings and password settings.

Setting items	Setting details	
Change Password Sets the password for changing the parental control level and parental control country code of BD and DVD.	Change : Changes the password. Use 0 – 9 to enter a password to finalize it. The default setting is "0000" 1 2 3 () 4 5 6 () 6 () 1 2 3 () 4 5 6 () 1 2 3 () 4 5 6 () 6 () 1 2 3 () 1 2 3 () 1 2 3 () 1 2 3 () 4 5 6 () 6 () 1 0 () 6 () 1 0 () 1 1 0 () 1 1 1 1 1 1 1 1 1 1	
BD Rating Level Sets the parental level for playing BD. DVD Rating Level Sets the parental level for	Level 0 – 254 : Sets the age allowed to play back media. Restricts playback of discs with relevant parental control. No Limit : Does not restrict playing of BD. Level1 – 8 : Sets the parental level for playing DVD. Lock All : Restricts playing of all DVD.	
playing DVD. Country Code	No Limit : Does not restrict playing of DVD. Initial setting is United States. Select the parental lock code for another	
Sets the standard country parental control. Applies the parental level of the set country.	country with $\Delta \nabla$.	

Network

Set Internet connection settings and BD-Live[™] settings.

Setting items	Setting details
Internet Connection Sets whether the Internet connection is to be used or not.	Enable : The Internet connection is to be used. Disable : The Internet connection is not to be used.
Information Displays the network information such as the IP address, subnet mask, etc.	Displays the network information shown below. • Address type • IP Address • Subnet Mask • Default Gateway • DNS1 • DNS2
Connection Test Performs the network connection test.	 Perform the Internet connection test. It is recommended to perform the connection test for the first Internet connection, or after the IP address or the settings for the network are changed. If connection is not completed, a message is displayed. Check the connection settings and connection environment.
DHCP Sets how to perform network configuration, automatically or manually. Since the factory default setting is "Auto", you do not need to set items such as the IP address if the DHCP server of the broadband router is set to "Enable".	 Auto Automatically configures the network via the DHCP function. Manual : When connecting to a network that lacks the DHCP function, manually configure the following network settings. Consult with the ISP or your network administrator for what settings to make. After use ∇ to clear value, use 0 - 9 to enter values and then press ENTER to finalize them. IP Address : Manually configure the IP address. Subnet Mask : If a xDSL modem or terminal adaptor is directly connected to the unit, enter the subnet mask provided by the ISP, usually in a document. Usually, "255.255.255.0" is set. Default Gateway : If the device is connected to a gateway (router), enter its IP address. DNS1 : Enter the primary DNS. DNS2 : Enter the secondary DNS.

Setting items	Setting details
BD-Live Connection Limits the access rights for the content on a BD-Live [™] connection.	Permitted : All Internet accesses from BD-Live [™] are permitted. Partial Permitted : Internet accesses from the certified BD-Live [™] are permitted. Prohibited : All Internet accesses from BD-Live [™] are prohibited.
Proxy Setting Setting for connecting to the Internet via a proxy server.	Disable : Does not use a proxy server. Enable : Uses the proxy server. • Proxy host: If Enable is selected for Proxy Setting, enter the proxy host from the virtual keyboard and press ENTER to register it. • Proxy port: If Enable is selected for Proxy Setting, enter the proxy port from the 0 - 9 to register it. • Network proxy input screen (with virtual keyboard) • Network proxy input screen (with virtual keyboard) • Network proxy input screen (with virtual keyboard) • Image: Set in the set information of the set in the set infor

Others

Default settings are underlined.

Set other functions.

Setting items	Setting details
Angle Mark For making settings for the angle mark displayed in playback.	If multiple angle marks are recorded on the disc being played, an angle mark is displayed while the scene including an angle is being played. <u>Off</u> : An angle mark is not displayed. On : An angle mark is displayed.
PIP Mark For making settings for the PIP mark displayed in playback.	If secondary video is recorded on the disc being played, a PIP mark is displayed while the scene including secondary video is being played. <u>Off</u> : A PIP mark is not displayed. On : A PIP mark is displayed.
Secondary Audio Mark For making settings for the secondary audio mark displayed in playback.	If secondary audio is recorded on the disc being played, a secondary audio mark is displayed while the scene including secondary audio is being played. <u>Off</u> : A secondary audio mark is not displayed. On : A secondary audio mark is displayed.
DivX Registration Displays the DivX [®] registration code.	Show Code : Displays the $\text{Div}X^{\textcircled{R}}$ registration code.
Remote ID (Unit side) Sets the remote control ID (ICP page 50).	Switches the unit's remote control ID code when other DENON BD players are in the vicinity. DENON 1 : Selects DENON 1. Set to "DENON 1" also on the remote control. DENON 2 : Selects DENON 2. Set to "DENON 2" also on the remote control.
Legacy Remote Sets not to receive signals from remote controls for DENON DVD players.	Set whether or not to accept remote control signals of a DENON DVD player or other device. <u>On</u> : Accepts. Off : Does not accept.
Internet Streaming Resets the Internet Streaming (NETFLIX) registration information on this unit.	Netflix Deactivate : Resets the NETFLIX registration information on this unit.



Video Settings

Sets up TV connection, HDMI connection, and 3D video software playback.

ΤV

Default settings are underlined. 3D

Default settings are underlined.

Default settings are underlined.

Set the video output signal according to the connected TV.

Setting items Setting details 16:9 Squeeze Auto : Outputs to a wide screen TV. For 4:3 video, displays Aspect Ratio in the center of the screen without changing the aspect ratio. Set the screen type and display mode of the TV. WIDE (16:9) : Outputs to a wide-screen TV. Wallpaper Picture : Displays the DENON logo. Setting for displaying the Black : Sets the background to black. background when playback Gray : Sets the background to gray. Blue : Sets the background to blue. is stopped. **Progressive Mode** Auto : Detects the type of video material and automatically switches the Sets an appropriate mode. Normally, this setting is used. progressive conversion mode **Video** : Suitable for playing video material discs. for the source video material. Film : Suitable for playing film material discs.

HDMI

Set the HDMI output signal.

Setting items	Setting details
Color Space Sets the video signal system to be output from HDMI.	 HDMI AMP : Sets the Color Space for the HDMI AMP output. HDMI MONITOR : Sets the Color Space for the HDMI MONITOR output. YCbCr : Outputs using the color difference video system (16 (black) to 235 (white)). RGB Normal : Outputs using the RGB video system (16 (black) to 235 (white)). RGB Enhanced : Outputs using the RGB video system (0 (black) to 255 (white)).
HDMI Deep Color Sets the HDMI terminal to output Deep Color. Expands the color depth (number of used colors) of the HDMI video signal, enabling playback with more natural colors and free of streaking.	 HDMI AMP : Sets the HDMI Deep Color for the HDMI AMP output. HDMI MONITOR : Sets the HDMI Deep Color for the HDMI MONITOR output. Auto : Deep Color is automatically output when the connected HDMI device supports Deep Color. Off : No Deep Color output.
HDMI Output Makes the output setting for the HDMI output terminal.	HDMI Dual : Outputs digital signals from both HDMI AMP and HDMI MONITOR output connectors. HDMI AMP : Outputs digital signals only from the HDMI AMP output connector. HDMI MONITOR : Outputs digital signals only from the HDMI MONITOR output connector. HDMI MONITOR : Outputs digital signals only from the HDMI MONITOR output connector. HDMI MONITOR : Outputs digital signals only from the HDMI MONITOR output connector. MOTE After making the selection, a Pop Up window for confirmation is displayed.

After making the selection, a Pop Up window for confirmation is displayed. Select OK to validate the change or Cancel to abandon the change.

Set up 3D video software playback.

Setting items	Setting details				
3D Output Sets up video outputs for 3D video playback.	Auto : Automatically determines whether the video software is 3D and plays it back. When you play 3D video, 3D and 2D video pa played back as 3D and 2D, respectively. Normally, use this setting. Off : Always outputs 2D video signals.				
Screen Size Sets up the screen size of your 3D enabled TV.	Use △∇◁ ▷ or 0 - 9 to enter three digits for the screen size of your TV in the setting screen, and press ENTER for confirmation. • The default setting is "046" (46" TV screen size). NOTE Set up the correct size, otherwise you may not be able to view 3D video properly.				

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3D video playback operations may differ according to the disc to be used. Refer to the instruction manual supplied with your disc.

NOTE

- When passing 3D video signals output from this device through an AV receiver to a 3D enabled TV, the AV receiver must also be compatible with inputting / outputting 3D video signals.
- To view 3D video, use a 3D enabled TV.
- During 3D playback, you cannot adjust "Video resolution" (<u>Ppage 28</u>) or "Adjusting the picture quality (Picture control)" (<u>Ppage 29</u>).



Settings for audio output are made.

Audio Output

Set the audio output.

Setting items	ems Setting details				
HDMI Sets the audio format output from the HDMI output connector.	Surround. The output format is automatically selected according to the audio format or the number of channels supported by the connected HDMI device. PCM : For selecting when a device connected to the unit does not support Dolby TrueHD/Dolby Digital Plus/Dolby Digital or DTS-HD/DTS Digital Surround. Off : For outputting no audio signal from the HDMI output terminal of the unit. For converting audio signals, see "About digital signal audio output" (Torpage 57).				
	NOTE If "BD Audio mode" is set to "HD Audio Output" with OPTION on the remote control, BD secondary audio and interactive audio are not output.				
Dynamic Range Compression Compresses the dynamic range of Dolby TrueHD/ Dolby Digital Plus/Dolby Digital Audio.	 Off : Dynamic range is not compressed. On : Dynamic range is compressed. <u>Auto</u> : Dynamic range of Dolby TrueHD audio is automatically compressed according to the material. Audio of Dolby TrueHD only is compressed. This setting compensates high volume to low and low volume to high when high volume is not desired at night. 				



MAC address is displayed.

MAC Address

Default settings are underlined.

Displays the MAC address.

Items

MAC address



Informations

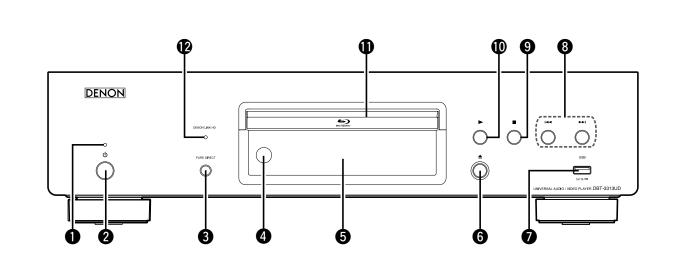
Here, we list various information related to this unit. Please refer to this information as needed.

- Part names and functions page 45
- Other information page 51
- Troubleshooting 2 page 61
- Specifications page 65
- Index page 66

Part names and functions

Front panel

For buttons not explained here, see the page indicated in parentheses ().

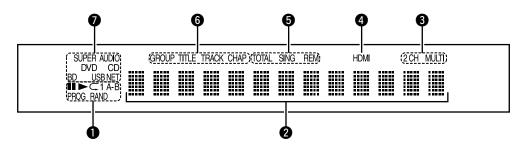


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Power indicator (13)
2 Power operation button (ψ)
Turns power to this unit on and off (standby).
3 PURE DIRECT button (27)
Remote control sensor (49)
9 Display
ⓑ Disc tray open/close button (≜)(<u>16</u>)

USB port (9)	
Reverse-skip/Forward-skip buttons (I◄◄, ►►I)	
9 Stop button (■)	
● Play button (►)	
Disc tray	
DENON LINK HD indicator (8)	

If **(i**) or **(iii**) is pressed when the power is in standby, the power is turned on.



• Playback mode indicators

: During Playback
 : During pause and step-by-step playback
 PROG : During program playback
 RAND : During random playback
 A-B : During repeat playback

2 Information display

Displays various information or playback elapsed time and so on of the disc.

3 Audio channel indicators

Displays the number of audio signal channels during playback. **2CH** : 2-channel playback **MULTI** : Multi-channel playback

HDMI output indicator

Lights when the HDMI connection is made.

Does not display when the HDMI cable is not correctly connected or when the HDMI connection is not verified.

5 Time mode indicators

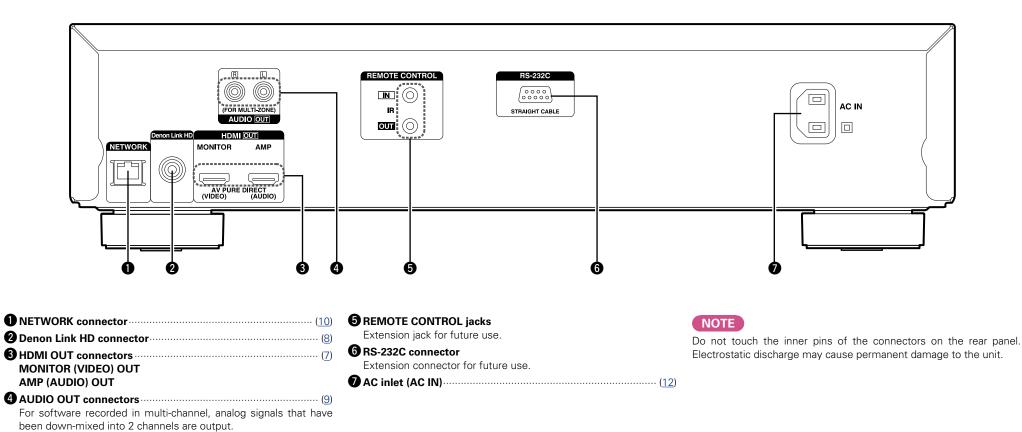
TOTAL : Total time of Super Audio CD and CD **SING** : Elapsed time of title/chapter/track/file being played **REM** : Remaining time of title/chapter/track/file being played

6 Group/Title/Track/Chapter indicators

Media indicators

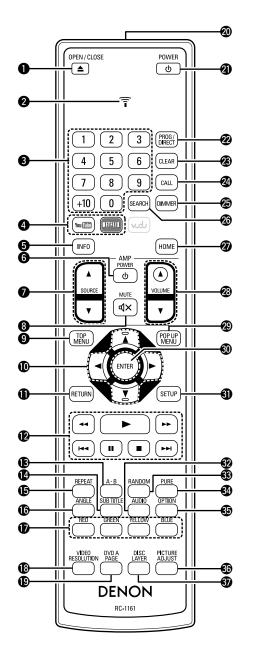
BD : BD DVD : DVD-Video, DVD-R/+R/-RW/+RW DVD AUDIO : DVD-Audio SUPER AUDIO CD : Super Audio CD CD : CD USB : USB memory device NET : NETWORK Lights when this unit is connected to the network. **Rear panel**

For buttons not explained here, see the page indicated in parentheses ().



Remote control unit

For buttons not explained here, see the page indicated in parentheses ().



Disc tray OPEN/CLOSE button (▲)	SEARCH mode button (23, 24)
 (ii) (iii) (iii)	2 HOME button (15)
status display	AMP VOLUME button (▲▼)
3 Number buttons	POP UP MENU button (16)
(0 – 9, +10) ······ (<u>23</u> , <u>25</u> , <u>40</u> , <u>40</u> , <u>42</u>)	(15, 37)
Network content buttons (21)	SETUP button (37)
Information button (INFO) (<u>14</u>)	AUDIO button (26)
⑥ AMP POWER button (心)	BRANDOM button (25)
AMP Source select buttons	Pure direct button (PURE)
(SOURCE ▲▼)	OPTION button (30)
③ AMP MUTE button (ଏ×)	PICTURE ADJUST button (29)
TOP MENU button (16)	DISC LAYER button
Ourson buttons ($\triangle \nabla \triangleleft \triangleright$)(15, 37)	<i>i</i>
 RETURN button System buttons	For operations with the $m{1}$ buttons, follow the
 Fast-reverse/Fast-forward buttons (◄◄, ►►) Play button (►) Skip buttons (I◄◄, ►►I) Pause/Still button (III) Stop button (■) A-B Repeat button (A-B)	 instruction guidance on the disc. NOTE The vudu button cannot be used. The ③, ②, ③, and ③ buttons are for operations for DENON AV receivers. Depending on the specifications of the AV receiver used, operations may not be allowed with this remote control. Protection films are attached to the remote control surface and sensor part. Remove these protection films by using, for example, tapes before use.
DVD A PAGE button (18)	
Remote control signal transmitter	
④ POWER button (也)	
Program/Direct button (PROG/DIRECT)	
2 CLEAR button (23, 24, 25)	
2 CALL button (25)	
DIMMER button (27)	

Inserting the batteries

- Slide the rear lid in the direction of the arrow and remove it.

3 Put the rear cover back on.

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 If the battery level is low, the remote control signal transmission/ status display flashes 5 times when a button is pressed. In this case, replace the batteries soon.

(2) Load the two batteries properly

as indicated by the marks in

Batteries

the battery compartment.

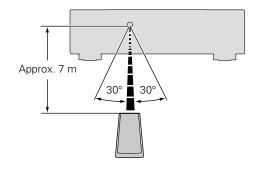
- If the batteries are completely exhausted, the remote control signal transmission/status indicator goes dark.
- The remote control unit may function improperly if rechargeable batteries are used.

NOTE

- Insert the specified batteries in the remote control.
- Replace the batteries with new ones if the set does not operate even when the remote control is operated close to the unit. (The supplied batteries are only for verifying operation.)
- When inserting the batteries, be sure to do so in the proper direction, following the ⊕ and ⊖ marks in the battery compartment.
- To prevent damage or leakage of battery fluid:
- Do not use a new battery together with an old one.
- Do not use two different types of batteries.
- Do not attempt to charge dry batteries.
- Do not short-circuit, disassemble, heat or dispose of batteries in flames.
- Do not keep the battery in a place exposed to direct sunlight or in places with extremely high temperatures, such as near a heater.
- If the battery fluid should leak, carefully wipe the fluid off the inside of the battery compartment and insert new batteries.
- Remove the batteries from the remote control if it will not be in use for long periods.
- Used batteries should be disposed of in accordance with the local regulations regarding battery disposal.

Operating range of the remote control

Point the remote control at the remote sensor when operating it.



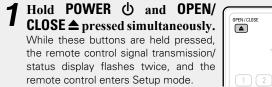
NOTE

- The set may function improperly or the remote control may not operate if the remote control sensor is exposed to direct sunlight, strong artificial light from an inverter type fluorescent lamp or infrared light.
- When using 3D video devices that transmit radio communication signals (such as infrared signals etc.) between the various units (such as the monitor, 3D glasses, 3D transmitter unit etc.), the remote control unit may not operate due to interference from those radio communication signals. If this occurs, adjust the direction and distance of the 3D communication for each unit, and check that the remote control unit operation is not affected by these signals.

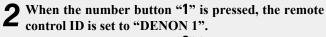
Remote control settings (remote control side)

Switches when this unit remote control operates another DENON BD players in the vicinity.

Set the remote control code simultaneously on the unit, too (rpage 41 "Remote ID").







When the number button "2" is pressed, the remote control ID is set to "DENON 2".

When number key input is completed and the remote control signal transmission/status display flashes twice, the settings for the remote control are completed.

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If the signal code of the remote control does not match the signal code of the unit, the remote control code set on the unit is shown on the display.

[Example]

If the code setting on the unit is "DENON 1", and the setting on the remote control is "2", "PLAYER 1" is shown on the display.

NOTE

- If you made the remote control settings incorrectly, the remote control signal transmission/status display flashes for 2 seconds, and then goes off. If this happens, the settings are incorrect and retry the settings.
- Match the signal code of the remote control with the signal code of the unit. If the remote control code is different, you cannot operate the this unit with the remote control.
- Even if you change the remote control code, set the SETUP menu "Others"-"Legacy Remote" (197 page 41) to "Off" when operating this unit with a remote control other than DENON's.

Other information

Playable media

Discs

Playable media		Playable formats/ modes	Playable region codes	Symbols used in this Owner's Manual	
BD-Video *1 *2 *4 BD-R *3 *4 BD-RE *3 *4	BILLY BUCK	_	Discs with		
DVD-Audio *1 *4	AUDIO		_		
DVD-Video *1 *2 *4	VIDEO	-	Include region		
DVD-R, DVD+R *4		Video mode,			
DVD-RW, DVD+RW		AVCHD format	_		
Super Audio CD	SUPER AUDIO CD	-	-		
CD					
CD-R		_	-		
CD-RW					

*1 BD-Video/DVD-Audio/DVD-Video discs may not operate as described in this manual due to menu structure.

*2 BD players and BD-Video discs, and DVD players and DVD-Video discs each have their region codes (codes assigned for each region). Playback is not possible if the codes do not match.

*3 Compatibility of a Blu-ray Disc as the specifications for Blu-ray Discs are new and advance day by day, discs of some types or versions may not be played with the unit. The firmware of this unit is updated periodically. Be sure to update the firmware to the latest version before using the unit.

*4 Including dual-layer discs.

NOTE

- A disc may not be accessible or may play incorrectly due to audio and video interruptions, etc., depending on the recording conditions when recorded with a BD recorder or DVD recorder.
- Unfinalised DVD-R/-RW/+R/+RW, and CD-R/-RW discs may not play back. Finalize discs before playing.

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- The following discs will not play back on this unit.
- BD-RE Ver1.0 (BD disc with cartridge)
- BDXL
- HD DVD
- DVD-RAM
- CDV (Only the audio part can be played)
- CD-G (Only the audio signals can be output)
- Non-standard CD (CD with copy protection, etc.)
- Unauthorised disc (Pirated disc)
- Disc with recording area less than 55 mm in diameter
- Video Single Disc (VSD) / CVD/ Video CD / Super Video CD / CompactDisc-Interactive (CD-I) / Photo CD

Files

	Playable media					
Playable files (Extension)	BD-R/-RE DVD-R/-RW/ +R/+RW CD-R/-RW		Network	File specification	Symbols used in this Owner' Manual	
MP3 (.mp3)	0	0	0	 Sampling frequency: 32 / 44.1 / 48 kHz Bit rate: 64 kbps to 320 kbps Audio type: MPEG1 audio layer 3 	Es	
WMA *1 (.wma)	0	0	0	 Sampling frequency: 32 / 44.1 / 48 kHz Bit rate: 48 kbps to 192 kbps Audio type: WMA ver. 9 		
AAC *1 (.m4a)	0	0	0	 Sampling frequency: 32 / 44.1 / 48 kHz Bit rate: 32 kbps to 320 kbps Audio type: MPEG4, AAC 	E	
LPCM (.wav)	<u> </u>	0	0	 Sampling frequency: 44.1 / 48 / 88.2 / 96 / 176.4 / 192 kHz Number of bits: 16 / 24-bits Number of channels: 2 channels 	E	
FLAC(.flac)	<u> </u>	0	0	 Sampling frequency: 32 / 44.1 / 48 / 88.2 / 96 / 176.4 / 192 kHz Bit rate: 64 kbps to 16.2 Mbps Number of bits: 8 / 16 / 24-bits 	E	
JPEG (.jpg/.jpeg)	0	0	0	 Maximum resolution: 4,096 x 4,096 pixels Minimum resolution: 32 x 32 pixels Maximum file capacity: 12 MB 		
PNG (.png)	0	0	0	 Maximum resolution: 4,096 x 4,096 pixels Minimum resolution: 32 x 32 pixels Maximum file capacity: 12 MB 		
DivX [®] (.avi/.divx/.mkv)	_ *2	0	0	 Supporting version: up to DivX[®] PLUS HD (Except CD-R/-RW) Maximum capacity: 2 GB 		
MPEG (.mpg/.mpeg /.mp4/.ts/.m2t)	<u> </u>	0	0	Video : MPEG2, MPEG4 Audio : AAC, MP3, AC-3		
WMV (.wmv)	<u> </u>	0	0	Video : WMV9, WMV9AP (VC-1) Audio : WMA		
AVI (.avi)	<u> </u>	0	0	Video : MPEG2, MPEG4 Audio : MP3, AC-3		

• Depending on recording conditions, these files may not be playable.

- If a file name/title name/artist name/album name includes characters that are not supported for the Media player display, it may not be displayed correctly.
- JPEG pictures recorded in the progressive system cannot be displayed.
- Variable Bit Rate (VBR) is not supported (when playback is possible, the time display in the display window will speed up and slow down).

* 1 Files with digital rights management (DRM) other than those protected by DivX[®] and WMDRM of devices on the network cannot be played.

*2 Except CD-R/-RW. Some files may not be playable depending on the transfer rate (Bit rate).

□ About DivX[®] Video-on-Demand (VOD)

- When you purchase or rent a $DivX^{\mathbb{R}}$ file through the official site of DivX[®] Video-On-Demand (VOD) services, the unit registration code is required. For details, see "DivX Registration" (page 41).
- A DivX[®] VOD file recorded with a different code from the unit registration code cannot be played back.
- Some DivX[®] VOD files are restricted to a certain number of playable times. If your Div $X^{\mathbb{R}}$ VOD file has such a limit, the number of playable times is displayed on the DivX[®] VOD display screen.
- Use $\triangleleft \triangleright$ to select "Yes" if you want to play a file, or to select "No" if you do not want to play it. Then, press ENTER to confirm the selection.

NOTE

- ABOUT DIVX VIDEO: DivX[®] is a digital video format created by DivX, LLC, a subsidiary of Rovi Corporation. This is an official DivX Certified[®] device that plays DivX video. Visit divx.com for more information and software tools to convert your files into DivX videos.
- ABOUT DIVX VIDEO-ON-DEMAND: This DivX Certified[®] device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain your registration code, locate the DivX VOD section in your device setup menu. Go to vod.divx.com for more information on how to complete your registration.

USB memory device

- The unit supports the FAT 16 and FAT 32 file system. It does not support the NTFS file system.
- The limit of folders and files that can be displayed on the unit is as shown below. (The limit shown includes the root folder.)

Folder layers	8
Folders	999
Files	999
File names, folder names	32
Artist names, song titles	60

- If there are too many characters to be displayed on one line, the display becomes scrollable.
- File names/title names/artist names/album names are displayed on the Media player display screen.

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- The unit supports high-speed USB file transfer (conforming to USB 2.0).
- AVCHD content stored on the USB memory device connected to the unit can also be played.
- USB memory devices of up to 2 TB are recognized.

NOTE

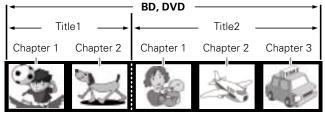
- Insert and remove a USB memory device with the power set to standby. If it is inserted or removed with the power on, the recorded files cannot be loaded or may be damaged.
- It is not compatible with an MP3 player, digital camera, a USB device for a mobile phone, etc.
- The unit cannot charge a USB device.
- The unit does not support a card reader, USB extension cable, or USB hub.

About Discs and Files

BD-Video, DVD-Video

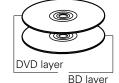
BD/DVD-Video discs are divided into several large sections (titles) and small sections (chapters). These sections are all allotted numbers, called title numbers and chapter numbers.

[Example]



U Hybrid BD

Hybrid disc

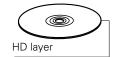


Two-layer Hybrid BD with an BD layer and a DVD layer. The signals on the DVD laver can be played on a regular DVD player.

U Super Audio CD

[Type of Super Audio CD]

Single layer disc



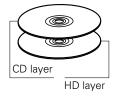
Single layer Super Audio CD with only an HD layer*.

Dual layer disc



Super Audio CD with a dual HD layer*, offering extended playing time and high sound quality.

• Hybrid disc

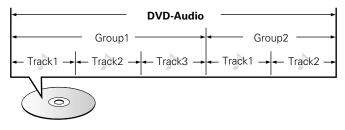


Two-layer Super Audio CD with an HD layer* and a CD layer. The signals on the CD layer can be played on a regular CD player.

* All Super Audio CD contain an HD (High Density) layer with high density Super Audio CD signals. This layer can contain a stereo channel area, a multi-channel area, or both a stereo channel and multi-channel area

DVD-Audio

DVD-Audio discs are divided into several large sections (groups) and small sections (tracks). These sections are all allotted numbers, called group numbers and track numbers.



🗆 CD

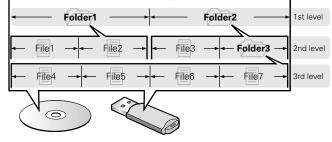
CD is divided into several sections (tracks). These sections are all allotted numbers called track numbers.

Track1 Track2 Track3 Track4 Track5

🗆 File

Files, such as MP3/WMA/AAC/LPCM/JPEG/DivX[®] etc., recorded on BD-R/-RE, DVD-R/-RW/+R/+RW, CD-R/-RW and USB memory device are divided into large segments (folders) and small segments (files). Files are stored in folders, and folders can be placed for storage in a hierarchy. The unit can recognize up to 8 levels of folders.

BD-R/-RE, DVD-R/-RW/+R/+RW, CD-R/-RW____ or USB memory device



• The limit of folders and files that can be displayed on the unit is as shown below. (The limit shown includes the root folder.)

Folder layers	8
Folders	999
Files	999
File names, folder names	32
Artist names, song titles	60

- If there are too many characters to be displayed on one line, the display becomes scrollable.
- File names/title names/artist names/album names are displayed on the Media player display screen.

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When writing MP3/WMA/AAC/JPEG/DivX[®] etc. files on a CD-R/-RW disc, set the writing software's format to "ISO9660". The files may not play properly if they are recorded in other formats. For details, refer to the instructions of your writing software.

Cautions on using media

Inserting a disc

- Set the disc in the tray label side up.
- Make sure the disc tray is fully open when inserting the disc.
- Place the disc horizontally in the tray, aligned with the tray guide.

ø

If a disc that cannot be played is loaded or the disc is loaded up-sidedown, "NO DISC" or "UNK DISC" is displayed on the player's display.

NOTE

- Only load one disc at a time. Loading two or more discs can damage the unit or scratch the discs.
- Do not use cracked or warped discs or discs that have been repaired with adhesive, etc.
- Do not use discs on which the sticky part of cellophane tape or labels is exposed or on which there are traces of where labels have been removed. Such discs can get caught inside the player and damage it.
- Do not use discs in special shapes, as they may damage the player.



• Do not push the disc tray in by hand when the power is off. Doing so could damage the set.

How to handle media

- Do not get fingerprints, oil or dirt on discs.
- Take special care not to scratch discs when removing them from their cases.
- Do not bend or heat discs.
- Do not enlarge the hole in the center.
- Do not write on the labeled (printed) surface with ball-point pens, pencils, etc., or stick new labels on discs.
- Condensation may form on discs if they are moved suddenly from a cold place (outdoors for example) to a warm place, but do not try to dry discs with a hairdryer, etc.
- Do not eject a USB memory device or turn off the unit while a USB memory device is being played. This may result in malfunction or loss of the USB memory device's data.
- Do not attempt to open or modify USB memory device.
- USB memory device and files can be damaged by static electricity. Do not touch the metal contacts of an USB memory device with your fingers.
- Do not use warped USB memory device.
- After use, be sure to remove any disc or USB memory device, and store it in its proper case, to avoid dust, scratches and deformation.
- Do not store discs in the following places:
- 1. Places exposed to direct sunlight for long periods of time 2. Dusty or humid places
- 3. Places exposed to heat from heaters, etc.

Cleaning discs

- If there are fingerprints or dirt on a disc, wipe them off before using the disc.
- Use a commercially available disc cleaning set or a soft cloth to clean discs.





Gently wipe the disc from the inside towards the outside.

Do not wipe with a circular motion.

NOTE

Do not use record spray, antistatic agents, benzene, thinner or other solvents.

About copyrights

- Unauthorised copying, broadcasting, public performance and lending of discs are prohibited.
- 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.
- Portions of this product are protected under copyright law and provided under license by ARIS/SOLANA/4C.

Cautions on using media

Cinavia notice

- This product uses Cinavia technology to limit the use of unauthorized copies of some commercially-produced film and videos and their soundtracks.
- When a prohibited use of an unauthorized copy is detected, a message will be displayed and playback or copying will be interrupted.
- More information about Cinavia technology is provided at the Cinavia Online Consumer Information Center at <u>http://www.cinavia.com</u>.
- To request additional information about Cinavia by mail, send a postcard with your mailing address to: Cinavia Consumer Information Center, P.O. Box 86851, San Diego, CA, 92138, USA."

Copyright protection system (HDCP)

In order to play back digital video and audio such as BD-Video or DVD-Video via HDMI connection, both the player and TV or the AV receiver need to support the copyright protection system known as HDCP (High-bandwidth Digital Content Protection System). HDCP is copyright protection technology comprising data encryption and authentication of the connected AV device. Our this unit supports HDCP.

NOTE

If a device that does not support HDCP is connected, video and audio are not output correctly. Read the owner's manual of your television or AV receiver for more information.

About digital signal audio output

The unit converts the format of digital audio signals recorded on media and output them.

• Audio signal input may not be supported depending on the HDMI compatible monitor (projector, etc.) being used. When the unit is connected to this kind of device, audio signals are not output from the HDMI terminal.

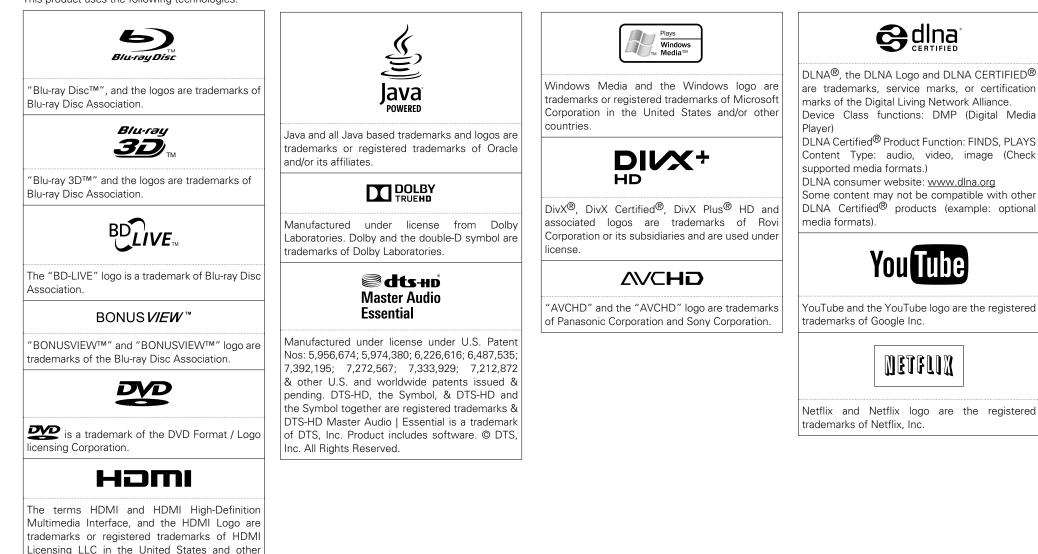
		Analog Audio Output Terminal		HDMI Output Terminal *1 *2 *3	
Media/Files	Audio format	2ch AUDIO OUT	Bitstream (Default setting)	PCM	
	DOLBY DIGITAL		DOLBY DIGITAL		
	DOLBY DIGITAL PLUS	-	DOLBY DIGITAL PLUS		
BD *2	DOLBY TrueHD		DOLBY TrueHD *4		
	DTS Digital Surround		DTS Digital Surround		
	DTS-HD		DTS-HD *4		
	Linear PCM		Multi Linear PCM		
	DOLBY DIGITAL		DOLBY DIGITAL		
BD-R/-RE	AAC		AAC *5		
	Linear PCM	2ch Linear PCM	Multi Linear PCM		
AVCHD	DOLBY DIGITAL		DOLBY DIGITAL	Multi Linear PCM	
AVCHD	2ch Linear PCM		Multi Linear PCM		
	DOLBY DIGITAL		DOLBY DIGITAL	-	
DVD-Video	DTS Digital Surround		DTS Digital Surround		
	Linear PCM		2ch Linear PCM		
DVD-Audio	Linear PCM / P.PCM		Multi Linear PCM		
	DOLBY DIGITAL		DOLBY DIGITAL]	
DivX®	AAC		Multi Linear PCM		
	MP3, MP2		2ch Linear PCM		
	Multi area		DSD *4 *6		
Super Audio CD	Stereo area			2ch Linear PCM	
CD layer			2 ob Li	near PCM	
CD, MP3, WMA, A	AAC		ZUIT LI		
FLAC			Multi L	inear PCM	
DTS-CD			DTS Digital Surround	Multi Linear PCM	

- *1 The output format is automatically changed depending on the audio format or number of channels that the connected HDMI device supports.
- *2 When "BD Audio Mode" (page 30) is set to "Mix Audio Output", the secondary audio and interactive audio are mixed to output linear PCM.
- *3 If the connected HDMI device does not support Dolby Digital Plus, Dolby TrueHD, or DTS-HD, the signal is output as Dolby digital or DTS Digital Surround bitstream. If it does not support the Dolby Digital or DTS Digital Surround bitstream, it is output as multi-linear PCM or 2-channel linear PCM.
- *4 When "Video resolution" (Page 28) is set to "480/576i" or "480/576P", DOLBY TrueHD and DTS-HD Master Audio bitstreams are output as DOLBY DIGITAL and DTS Digital Surround bitstreams, respectively. Also, the DSD multi-channel signals are output as DSD 2 channel signals.
- *5 If the connected HDMI device does not support AAC , the signal is output as Linear PCM.
- *6 When a device that does not support DSD is connected to the HDMI OUT AMP or MONITOR connector, linear PCM signals are output from the HDMI OUT connector.

Trademark information

This product uses the following technologies:

countries.



Explanation of Terms

AAC (Advanced Audio Coding)

Α

This is an internationally standardized audio data compression scheme. It has a compression ratio 1.4 times higher than the "MP3" audio compression scheme adopted for "MPEG-1".

Aspect ratio

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

Audio commentary

This is an audio program included as a bonus feature in a DVD-Video or BD-Video. It uses a multiaudio function to provide an audio explanation or commentary by members of the crew or director, etc. to accompany the video.

B BD-J (Blu-ray Disc Java)

BD-Video offer fun software with more interactive functions (games) that use Java applications.

BD-Live[™]

The unit can be connected to the Internet to enjoy a number of features, including additional contents such as special video or subtitles, games, etc. **Bit rate**

Bit rate

This is the amount of video or audio data recorded on a disc that is read in one second.

Blu-ray disc

Blu-ray discs can record high-definition video movies of up to 25 GB for single-sided single-layer discs or 50 GB for single-sided dual-layer discs.

Bonus View

С

Special images for BD-Video. It includes comments from the movie director, simultaneously developing sub-stories, and images from different angles.

Chapter

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

Deep Color

This technology allows expression of more colors than the conventional 8-bit and can reproduce more natural colors without any color streaking.

Default Gateway

D

This device is the entry and exit point between an internal network and an external network (Internet, etc.).

DHCP (Dynamic Host Configuration Protocol)

This function assigns IP addresses automatically to network devices.

DivX

This is a video codec (video compression/ decompression software) developed by DivX, Inc. The compression technology is based on "MPEG-4 Part 2" (known as "MPEG-4 ASP"). It allows along video to be compressed into a small file while maintaining a high-quality image.

It is available in the free "DivX" version or the paid "DivX PRO" version.

DLNA

An abbreviation of Digital Living Network Alliance. An industry group that was established to decide specifications for the mutual connection of audio visual devices and computers in a home network and the mutual utilization of music, photo and video data

This unit is based on DLNA Home Networked Device Interoperability Guidelines.

DNS (Domain Name System)

A system that matches host names on the Internet to IP addresses.

Dolby Digital (5.1-ch Surround)

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

Dolby Digital Plus

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

Dolby TrueHD

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

Downmix

This function converts the number of channels of surround audio to less channels for playback. **DTS**

This is an abbreviation of Digital Theater System,

which is a digital audio system developed by DTS. When playing audio on this system while connected to a device such as a DTS amplifier, accurate sound field position and realistic sound effects can be obtained, making you feel like you are in a movie theater.

DTS-HD

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

Dynamic range

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

Finalizing

н

This process enables DVD/CD recorded with a recorder to be played by other players.

HDCP

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

HDMI

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

Interlacing (interlaced scanning)

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

Interactive audio

This is audio recorded in the titles of BD-Video, such as clicking sounds made during operations.

IP Address

An identification number that is assigned to each network device.

JPEG (Joint Photo graphic Experts Group)

This is a still picture data compression standard. Its ability to reduce the size of a file with relatively little deterioration in image quality means that it is widely used for storing images in video cameras, etc.



LAN (Local Area Network)

A wired or wireless network that connects devices together.

Linear PCM

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

MAC Address

A unique identification number for network devices such as LAN cards.

MP3 (MPEG AudioLayer 3)

М

This is an internationally standardized audio data compression scheme, using the "MPEG-1" video compression standard. It compresses the data volume to about one eleventh its original size while maintaining sound quality equivalent to a music CD. **MPEG**

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

Picture-in-picture

Р

This BD-Video function allows you to view scenes, such as the making of or commentary on the movie, in the secondary video while viewing the main story in the primary video.

Pop up menu

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

Primary audio

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

Primary subtitle

This subtitle is recorded in the main story in BD-Video.

Primary video

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

Progressive (sequential scanning)

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

Proxy

This is a hookup to secure high-speed access and safe transmission for connecting to the Internet from the internal network.

Rating

Depending on the age of the viewer, this function restricts the playing of BD-Video or DVD-Video. The unit can be set to restrict viewing in 0 to 254 levels for BD-Video, and 1 to 8 levels for DVD-Video.

Region code

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

S

R

Sampling frequency

Sampling involves taking a reading of a sound wave (analog signal) at regular intervals and expressing the height of the wave at each reading in digitized format (producing a digital signal).

The number of readings taken in one second is called the "sampling frequency". The larger the value, the closer the reproduced sound is to the original.

Secondary audio

This is audio content, such as the director's comments, and other data recorded in the bonus view of BD-Video.

Explanation of Terms

Secondary subtitle

Т

This subtitle, such as the director's comments and other data recorded in the bonus view of BD-Video.

Subnet Mask

A 32-bit value that defines which bits in an IP address are reserved for a network address for identifying the network.

Title

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

W

WMA (Windows Media Audio)

This is audio compression technology developed by Microsoft Corporation.

To encode WMA files, only use applications authorized by Microsoft Corporation. If you use an unauthorized application, the file may not work properly.

Х

x.v.Color

This function lets HDTVs display colors more accurately. It enables display with natural, vivid colors. "x.v.Color" is trademark of Sony Corporation.

Y

YouTube

This is the video-content sharing site managed by YouTube, LLC.

Troubleshooting

If a problem occurs, firstly check the following:

1. Are the connections correct?

2. Is the set being operated as described in the owner's manual?

3. Are other components operating properly?

If this unit does not operate properly, check the items listed in the table below. If the problem continues there may be a malfunction.

In this case, disconnect the power immediately and contact your retail outlet.

[General]

Symptom	Cause/Solution	Page
Power does not turn on.	 Check if the power cord is properly connected. Plug the power supply cord into the household power outlet. The safety protection device may be activated. Unplug the power 	<u>12</u> <u>12</u> <u>12</u>
	cord once, and wait for 5-10 seconds and then plug it in again.	
Playback does not start even when ► is	• Is there condensation inside the player or on the disc? (Let it sit for 1 to 2 hours with the power off.)	<u>2</u>
pressed, or starts but stops immediately.	 When the disc is scratched or contaminated with fingerprints, the disc may not play correctly. Clean the disc or replace with a non- scratched disc. 	<u>55</u>
	• Is the disc loaded upside-down? Load the disc properly, with the side to be played face down.	<u>55</u>
	 Is an unplayable disc loaded? 	<u>51</u>
	No disc is inserted. Insert a disc.	_
No return to start-up screen when a disc is removed.	• There may be an internal error. Set the power to standby, wait awhile, then turn the power back on.	<u>13</u>
Buttons do not work	• Operations may not be permitted by the disc.	<u>13</u>
or the unit stops responding.	 The safety protection device may be activated. Unplug the power cord once, and wait for 5-10 seconds and then plug it in again. Refer to the instructions of the disc. 	<u>12</u> -
The camera angle does not switch.	• If the multiple angles are not recorded in a BD-Video or DVD- Video, the camera angle cannot be switched. Also, multiple angles may only be recorded for specific scenes.	<u>26</u>
Playback does not start when a title is selected.	• Playback may be prohibited by the viewing restriction setting. Check the "Parental Controls" setting on the SETUP menu.	<u>40</u>
I have forgotten the password for the rating level.	• On the SETUP menu, perform the "System" – "Reset" procedure.	<u>38</u>

[Video]

[Video]		
Symptom	Cause/Solution	Page
No picture appears.	• Switch the TV's input setting to the external input connected to the player.	-
	 Is the Pure Direct function set to "AV P.Direct", "Pure Direct 1" or "Pure Direct 2"? Set it to "Off". 	<u>27</u>
	• Does the setting of resolution on the match the connected device's resolution?	<u>28</u>
	 Is the resolution is set according to the connected device by pressing VIDEO RESOLUTION on the remote control? Make settings for resolution. 	<u>28</u>
	• The HDMI cable is not connected securely. Connect the HDMI cable securely.	<u>7</u>
	• The HDMI OUT connector is probably connected to a DVI IN connector of equipment. DVI connection does not support HDCP and the HDMI is not output correctly.	<u>8</u> , <u>56</u>
The picture is not displayed or is	• The picture may be slightly disturbed right after fast-forwarding or reversing. This is not a malfunction.	-
disrupted. The picture of a BD- Video or DVD-Video disc is in black and white.	 Is a disc that is not compatible with the player or a disc with a different region number loaded? (This player supports region code "B" for BD-Video discs, "2" or "ALL" for DVD-Video discs.) 	<u>51</u>
The picture freezes momentarily during playback.	• If a disc is scratched or contaminated with fingerprints, the disc may not play correctly. Clean the disc or replace with a non-scratched disc.	<u>55</u>
	• There may be a problem with the data recorded on the disc.	-
Subtitles are not displayed.	• Subtitles cannot be displayed for BD-Video, DVD-Video or DivX [®] files that do not contain subtitles.	-
	• Is the subtitle setting "Off"? Use the disc menu or SUBTITLE to set the subtitles to display.	<u>26</u>
3D video does not	• Is 3D compatible TV connected before playing 3D disc?	<u>7</u> 7
appear.	• Is a 3D compatible TV connected to the HDMI MONITOR connector? When a TV that is not compatible with 3D is connected to the HDMI MONITOR connector, 3D video is not output from the HDMI AMP connector.	2

(Audio)

Audio		
Symptom	Cause/Solution	Page
HD audio is not output.	Set "BD Audio Mode" to "HD Audio Output".	<u>30</u>
No sound or the sound is hard to hear.	 Check the audio connections of connected devices and speakers. Is the power connected audio devices turned on? Is the input selection set to the input to which the unit is connected? 	<u>9</u> -
	 Is the audio output properly selected? 	<u>26, 57</u>
No sound.	 The unit is in reverse play, fast forward, fast reverse, slow forward, slow reverse or pause mode. Return to the normal playback. The HDMI OUT connector is probably connected to a DVI IN connector of equipment. DVI connection does not support HDCP and the audio is not output correctly. 	– <u>8</u> , <u>56</u>
	 Is the Pure Direct function set to "AV P.Direct", "Pure Direct 1" or "Pure direct 2"? Set it to "Off". 	<u>27</u>
Interactive audio is not output.	• Set "BD Audio mode" to "Mix Audio Output" using the OPTION setting menu.	<u>30</u>
Multi-channel audio is not output.	• Is the multi-channel audio selected? Press AUDIO of the remote control to switch from audio supported by a disc to multi-channel audio.	<u>26</u>

(HDMI)

Symptom	Cause/Solution	Page
Video and audio are	Check the connection of the HDMI cable.	<u>7</u>
not output via the	• Is the "HDMI" indicator on the display of the unit lit?	<u>46</u>
HDMI connection.	• Is the Pure Direct function set to "AV P.Direct", "Pure Direct 1" or "Pure Direct 2"? Set it to "Off".	<u>27</u>
	• Check whether the connected display device or other device supports HDCP. This unit will not output a video signal unless the other device supports HDCP. See the owner's manual of your TV, AV receiver, etc.	<u>56</u>
	• Check that the setting of the HDMI video resolution supports the resolution of the connected device. When set to "Auto", this unit makes the setting automatically.	<u>28</u>
	• Turn off power of the unit and then turn it back on.	<u>13</u>
	• Turn off power of the connected device and then turn it back on.	-
	• Unplug the HDMI cable and then plug it in again.	<u>Z</u>
	• When you connect the unit to an AV receiver, first connect the unit directly to a television and check the video and audio output. If output is performed properly, connect the unit to the AV receiver again and check the AV receiver setting.	-

[USB memory device]

Symptom	Cause/Solution	Page
USB memory device cannot be read.	 The format of the USB memory device does not match this unit or the USB memory device is not compatible. 	<u>53</u>
Data stored in a USB memory device	 Has the unit initialized the USB memory device with applicable formats? (FAT 16/FAT 32) 	<u>53</u>
cannot be displayed (read).	• Are you using a USB hub? If so, directly connect the USB memory device to a USB port on the front panel of the unit.	<u>9</u>
	 Are you using a USB extension cable? If so, directly connect the USB memory device to the USB port on the front panel of the unit. 	<u>9</u>
	 Are the USB memory device contents applicable to this unit? Use the "Files" menu to confirm whether the contents are applicable to the unit. 	<u>52</u>
	• When a USB memory device of 192 MB or less is formatted with FAT 32, this unit may not be able to read it. If that is the case, format it with FAT 16.	<u>53</u>
	 This unit does not support a USB memory device containing encrypted data. 	-
The USB memory device is not recognized.	 Some USB memory devices cannot be operated by the power supplied from this unit. The unit supplies 5 V/1 A to a USB memory device. Use a USB memory device that is compatible with the specifications of this unit. 	-
	• Check if the USB memory device is firmly connected to the USB port.	<u>9</u>
Files that begin with "." cannot be played.	 When content created by Mac OS X is copied into a USB memory device, all contents as well as hidden files are copied. Although the extension of this file is the same as the extension of the content, it is actually not the content. Delete this file using another OS such as Windows. 	_
Unable to play back BD-Live™ / bonus	 Does the USB memory device have more than 1 GB of available space? 	<u>33</u>
view.	• Has the USB memory device been initialized by the unit?	<u>39</u>
	 Was the USB memory device inserted while the power of the unit was on? (Insert the USB memory device while the unit is in the standby status.) 	<u>33</u>

[Disc]

Symptom	Cause/Solution	Page
A playable disc is not read.	• The pickup lens may be dirty. Before requesting servicing, try cleaning the laser pickup with a commercially available lens cleaner. (Do not use a cleaner with a brush because it may damage the lens.)	_
A disc cannot be played back.	• The finalizing procedure after recording has not been performed correctly. Finalize a disc properly.	<u>51</u>

[Network]

Symptom	Cause/Solution	Page
Cannot connect to the network.	 The LAN cable is not connected. Correct the network connections. The IP address is incorrect. Correct the network settings. The connection has been blocked by the firewall. Allow communication with the unit. 	<u>10</u> <u>40</u> -
Can not find the server.	 The server is not running. Start the server. The server has not authenticated the unit. Authenticate the unit on the server side. 	<u>10</u> <u>11</u>
	• The unit does not recognize the server. Obtain the server list again.	<u>19</u>
The media player does not respond.	• There is a large number of files in the list and processing takes time. Wait until the process finishes.	-
	• Multiple servers are starting or updating information. Wait until the process finishes.	_
	• The media player no longer responds to operations. Press DLNA Search on the media player menu.	<u>19</u>
Cannot obtain the file list.	• The server is creating the file list. It may take some time for the server to create the file list. If that is the case, wait until the list creation has finished.	-
	• The number of files that can be registered by the server has been exceeded. Limit the number of files formats to the range that can be registered by the server. For details, see the server's user guide.	-
	• Characters that are not supported by the server are used in areas such as the file name. Limit the number of files formats to the range that can be registered by the server. For details, see the server's user guide.	_

Symptom	Cause/Solution	Page
Can not play DRM- protected files.	• The server does not support DRM. Connected to a server that does support DRM.	-
	• The server has not obtained the DRM license. Obtain the DRM license on the server side in advance.	<u>52</u>
Takes time to play or change to the next file.	 The file size is large. This is not a malfunction. DRM-protected content is being played. This is not a malfunction. 	<u>52</u> 52
Takes time for the file list to display.	• There is a large number of files in the list. During random play, the larger the number of files in the server, the longer it takes to display the file list. Reduce the number of connected servers or reduce the number of files registered on the server.	_
Cannot play even though the file format is supported	 The server does not support this file format. Only files whose formats are supported by both the unit and the server can be played. See the server's user guide. 	_
for playback.	 There is not enough network bandwidth. Communication in a network may become congested, Stop the communication of the other devices, or redesign your network environment. 	<u>10</u>
Playback breaks up.	• The file bit rate is too high. Communication in a network may become congested, Stop the communication of the other devices, or redesign your network environment.	<u>10</u>

【BD-Live™】

Symptom	Cause/Solution	Page
BD-Live™ function does not work.	• Network connection is not established. Perform the connection test. If "The network connection failed" is displayed in the test, check the network cable connection and settings.	<u>40</u>
	• When the BD-Live [™] function is used, the line speed of the broadband being used is not sufficient. Consult with the Internet Service Provider (ISP) and change it to the speed recommended for using a broadband line.	<u>33</u>
	• Check if the disc has support for BD-Live™.	-
	 If the BD-Live[™] function does not work even after data is downloaded into a USB memory device, reformat the USB memory device on this unit. 	<u>39</u>
	• The "BD-Live Connection" setting of "Network" menu is set to "Prohibited". Set it to "Permitted".	<u>41</u>
Cannot play BD- Live™ video.	• The content downloaded to the built-in memory or USB memory device are provided as a part of the BD-Video content by the video company who recorded the disc. You cannot copy BD-Live™ video or audio content into a USB memory device and play that USB memory device independently on equipment other than this unit.	-

[Video streaming distribution service]

Symptom	Cause/Solution	Page
Playback stops from time to time during playback of the video streaming distribution service.	• When Video streaming distribution service function is used, the line speed of the broadband being used is not sufficient. Consult with the Internet Service Provider (ISP) and change it to the speed recommended for using a broadband line.	<u>21</u>

[Remote control unit]

Symptom	Cause/Solution	Page
The set cannot be operated with the	• Aim the remote control directly at the infrared sensor window on the front of the unit.	<u>49</u>
remote control.	• Operate within a distance of 7 m from the remote control sensor.	<u>49</u>
	 Remove any obstacles. 	<u>49</u>
	 Replace the batteries with new ones. 	<u>49</u>
	• Insert the batteries in the proper direction, checking the \oplus and Θ marks.	<u>49</u>
	 Match the signal code of the remote control to the signal code of the unit. 	<u>41</u> , <u>50</u>
	• Check whether the remote sensor of the unit is exposed to direct sunlight or strong light of a fluorescent lamp, 3D synchro signal of TV. Be sure to avoid exposing the remote sensor to strong light.	<u>49</u>
The unit is operated by the remote	• The unit is designed to be operated by the remote controls of other DENON products. To avoid the unit being operated by the remote	<u>41</u>
control of an other DENON product.	controls of other devices, set "Others" – "Legacy Remote" to "Off" on the SETUP menu.	
DENON product.	On on the SETON menta.	

- Some functions may not be used under certain operating conditions, but this is not failure of the unit. Read the description in this Owner's Manual for details on correct operations.
- The volume may differ from disc to disc. This is due to the differences in how the signals are recorded on the disc and is not a malfunction.
- During programmed playback, it is not possible to perform random playback or to start playback from a desired track or file.
- Some functions are prohibited on some discs.

Specifications

Performance

Cimpel format :	NTSC. PAL	
Signal format :	/	
Applicable discs /memory device :	(1) BD-Video disc :	
		12 cm, 1 side, 2 layers
	(2) DVD-Video / DVD-Audi	
		12 cm, 1 side, 2 layers /
	12 cm, 2 sides, 2 layer	
	8 cm, 1 side, 1 layer; 8	
	8 cm, 2 sides, 2 layers	(1 side, 1 layer)
	(3) Super Audio CD :	
		, 2 layer / 12 cm, Hybrid
	(4) Compact Disc (CD-DA)):
	12 cm / 8 cm disc	
	(5) Memory device :	
	USB memory device (l	
HDMI output :	Output terminal : 19-pin H	
		al Plus, Dolby TrueHD, DTS-HD, 3D)
Analog audio output :	Output level : 2 Vrms (10	
	2 channels output termina	al : Pin-jack, 1 set
Audio output characteristics :	(1) Frequency response	
	 BD (Linear PCM) 	: 2 Hz - 22 kHz (48 kHz sampling)
		: 2 Hz - 44 kHz (96 kHz sampling)
	-	: 2 Hz - 88 kHz (192 kHz sampling)
	 DVD (Linear PCM) 	: 2 Hz - 22 kHz (48 kHz sampling)
		: 2 Hz - 44 kHz (96 kHz sampling)
		: 2 Hz - 88 kHz (192 kHz sampling)
	③ Super Audio CD	: 2 Hz - 40 kHz
	④ CD (0) C(N) action (105 dB (DD))	: 2 Hz - 20 kHz
	(2) S/N ratio : 125 dB (BD)	
		on : 1 kHz, 0.0008 % (BD)
	(4) Dynamic range : 110 d	
- ·		

🖵 General

Power supply : Power consumption : (*** page 38 "Energy Saving Mode") AC 100 – 240 V, 50/60 Hz 25 W 0.3 W (Energy Saving Standby) 0.5 W (Normal Standby) 14 W (Quick Start)

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

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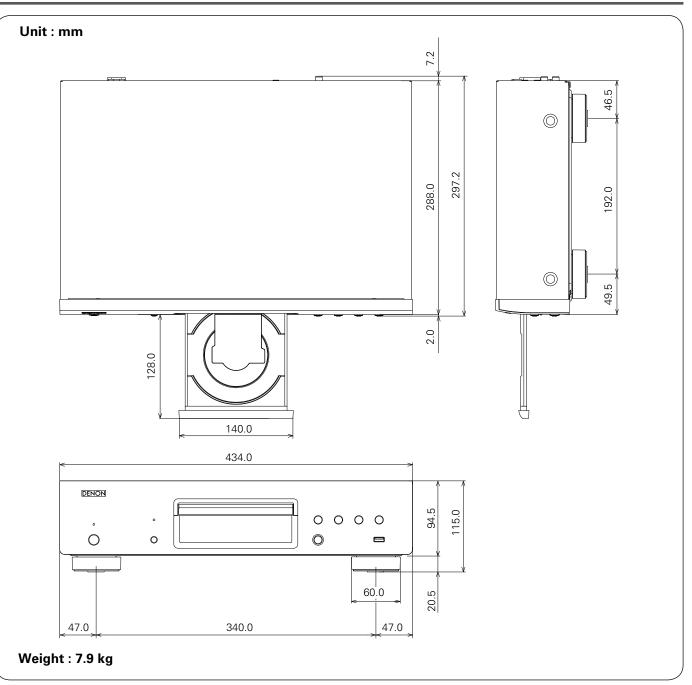
©7₩

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WMA
WMV52

🕼 X

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Dimensions



_icense

This section describes software license used for DBT-3313UD. To maintain the correct content, the original (English) is used.

Exhibit-A

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

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