DENON®

DCD-3000NE

SUPER AUDIO CD PLAYER

Owner's Manual

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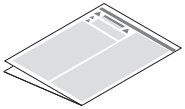
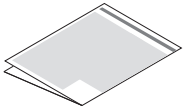
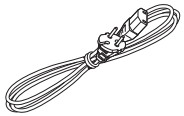
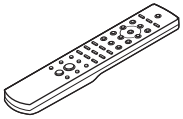
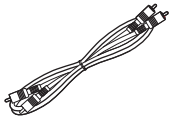
Thank you for purchasing this Denon product. To ensure proper operation, please read this owner's manual carefully before using the product.
After reading this manual, be sure to keep it for future reference.

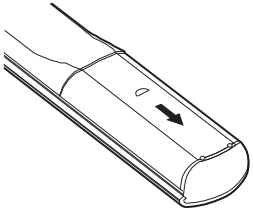
Accessories

Check that the following parts are supplied with the product.

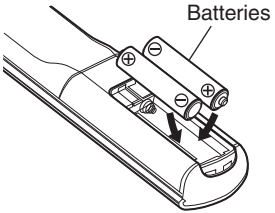
Quick Start Guide	 Safety Instructions	 Cautions on Using Batteries	 Power cord
 Remote control unit (RC-1207)	2× R03/AAA batteries	 Audio cable	

Inserting the batteries

1 **Remove the rear lid in the direction of the arrow and remove it.**



2 **Insert two batteries correctly into the battery compartment as indicated.**



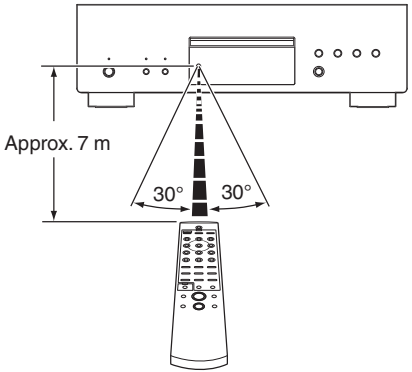
3 **Put the rear cover back on.**

NOTE

- 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.
- Remove the batteries from the remote control unit if it will not be in use for long periods.
- If the battery fluid should leak, carefully wipe the fluid off the inside of the battery compartment and insert new batteries.

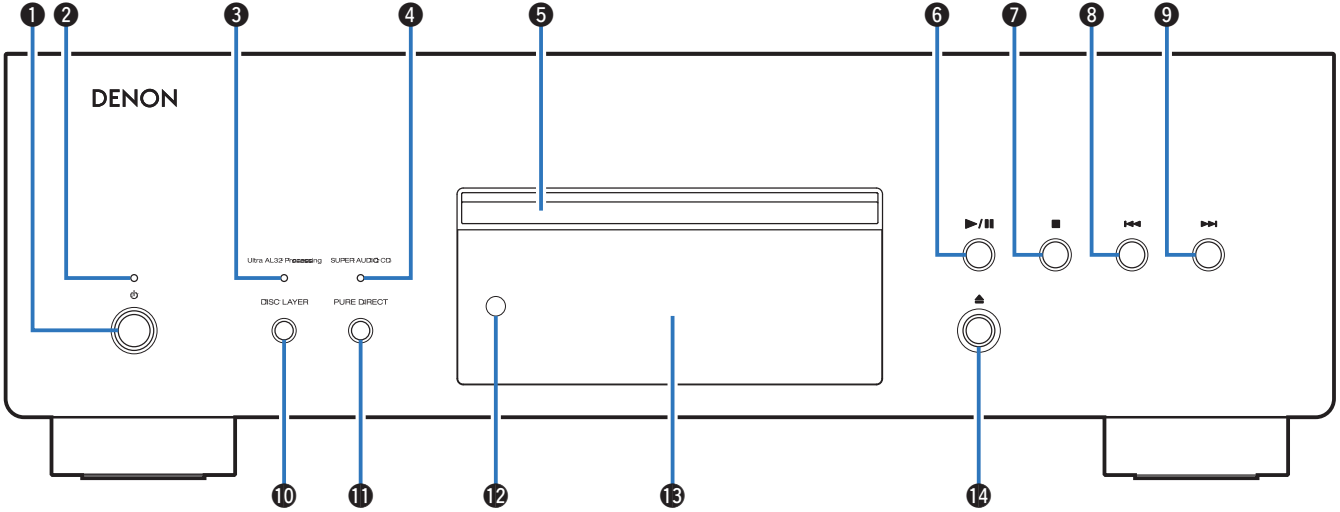
Operating range of the remote control unit

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

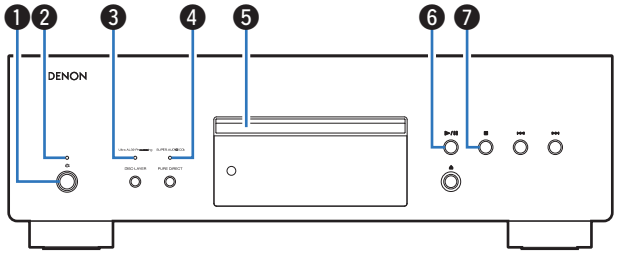


Part names and functions

Front panel



For details, see the next page.



1 Power ⏻ button

This turns the power on/off. (☞ p. 20)

2 Power indicator

This is lit as follows according to the power status:

- Power on : Green
- Standby : Off
- Power off : Off

3 Ultra AL32 Processing indicator

When this unit is used in the following ways, Ultra AL32 Processing is activated and this light turns green.

- When a CD is inserted
- When a data disc is inserted
- When “CD” is set as the layer mode of a Super Audio CD

- When a DSD file is played, Ultra AL32 Processing stops and this light turns off.

4 SUPER AUDIO CD indicator

This light turns green when this unit is used in the following ways.

- When a Super Audio CD is inserted
- When “STEREO” or “MULTI” is set as the layer mode of a Super Audio CD

5 Disc tray

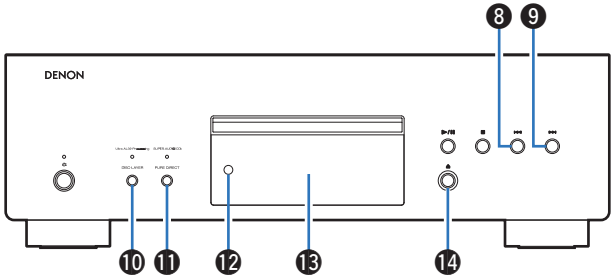
Used to insert a disc.

6 Play/Pause button (►/II)

Plays the track/Pauses the track.

7 Stop button (■)

Stops playback.



8 Reverse-skip button (I◀◀)
Returns to the start of the currently playing track.

9 Forward-skip button (▶▶I)
Plays the next track.

10 DISC LAYER button
This switches the Super Audio CD layer. (☞ p. 22)

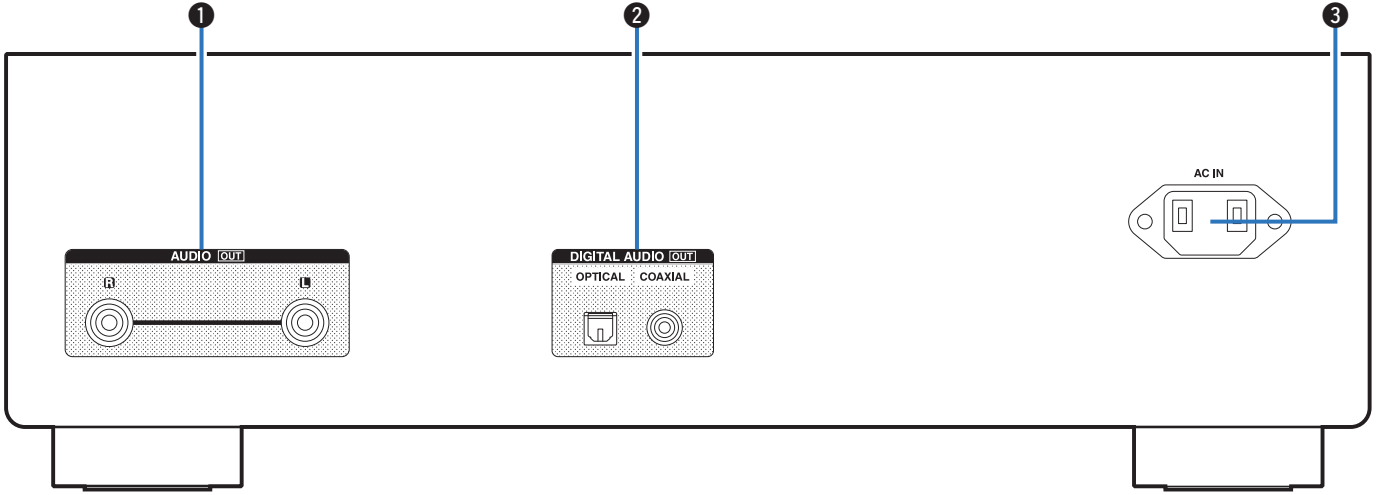
11 PURE DIRECT button
This switches the Pure Direct mode. (☞ p. 21)

12 Remote control sensor
This receives signals from the remote control unit. (☞ p. 5)

13 Display
Various information is displayed here.

14 Disc tray open/close button (⏏)
Used to open/close the disc tray.

Rear panel



1 AUDIO OUT connectors

Used to connect devices equipped with analog audio inputs connectors or an external amplifier. (☞ p. 15)

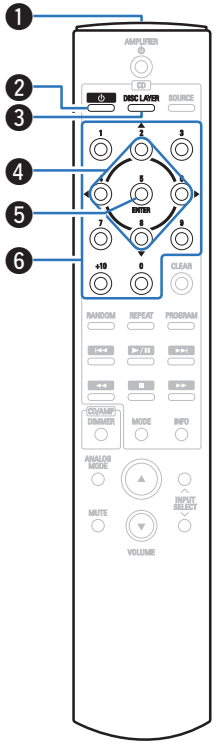
2 DIGITAL AUDIO OUT connectors (OPTICAL/COAXIAL)

Used to connect an amplifier or D/A converter that has a digital input connectors. (☞ p. 16)

3 AC inlet (AC IN)

Used to connect the power cord. (☞ p. 18)

Remote control unit



The remote control provided with this unit can control a Denon amplifier.

- “Amplifier operations” (☞ p. 13)

■ Operating this unit

❶ **Remote control signal transmitter**
This transmits signals from the remote control unit. (☞ p. 5)

❷ **Power (⏻) button**
This turns the power on/off (standby). (☞ p. 20)

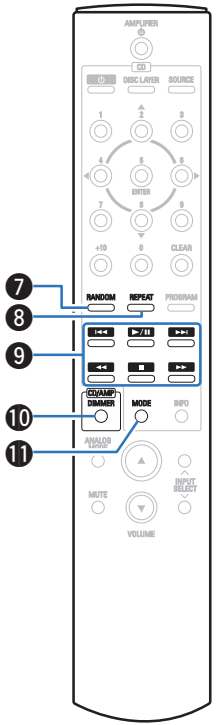
❸ **DISC LAYER button**
This switches the playback layer of a Super Audio CD.

- “Setting the top priority playback layer for Super Audio CDs” (☞ p. 22)
- “Playing CDs/Super Audio CDs” (☞ p. 23)

❹ **Cursor buttons (△▽◁ ▷)**
These select items.

❺ **ENTER button**
This determines the selection.

❻ **Number buttons (0 – 9, +10)**
These enter numbers into the unit.



7 RANDOM button

Switches the random playback.

8 REPEAT button

Switches the repeat playback.

9 System buttons

These perform playback related operations.

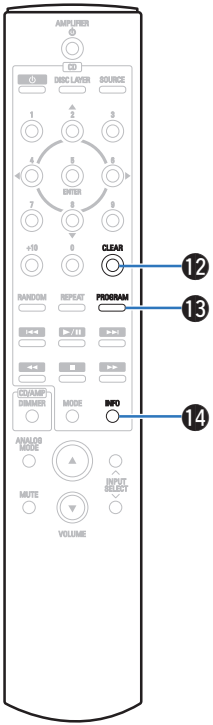
- Play/Pause button (►/❚❚)
  Plays the track/Pauses the track.
- Forward-skip button (►►I)
  Press this button during playback to play the next track.
- Reverse-skip button (I◄◄)
  Press this button during playback to restart the current track or play the previous track.
- Stop button (■)
  Press this button to stop during playback.
- Fast-forward button (►►)
  Press and hold this button to fast-forward the track.
- Rewind button (◄◄)
  Press and hold this button to fast-reverse the track.

10 DIMMER button

This switches the brightness of the display. (☞ p. 21)

11 MODE button

This switches the playback mode. (☞ p. 29)



⓬ CLEAR button

This clears the program registration. (☞ p. 26)

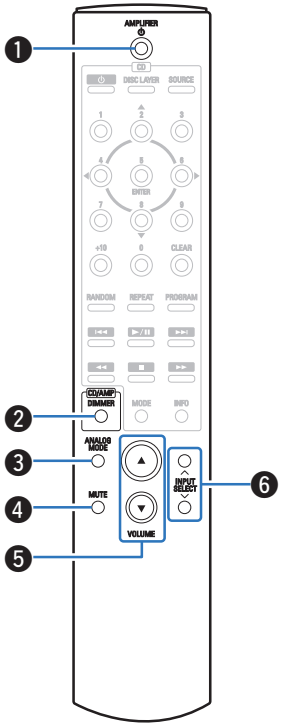
⓭ PROGRAM button

This sets program playback. (☞ p. 25)

⓮ Information button (INFO)

This switches the track information shown in the display during playback.

- You cannot use the SOURCE button for the operation of this unit.



■ Amplifier operations

A Denon amplifier can be operated.

1. **Power (AMPLIFIER ⏻) button**
2. **DIMMER button**
3. **ANALOG MODE button**
4. **MUTE button**
5. **VOLUME buttons (▲▼)**
6. **Input source select buttons (INPUT SELECT)**

NOTE

- The remote control may not operate some products.

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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 noise.

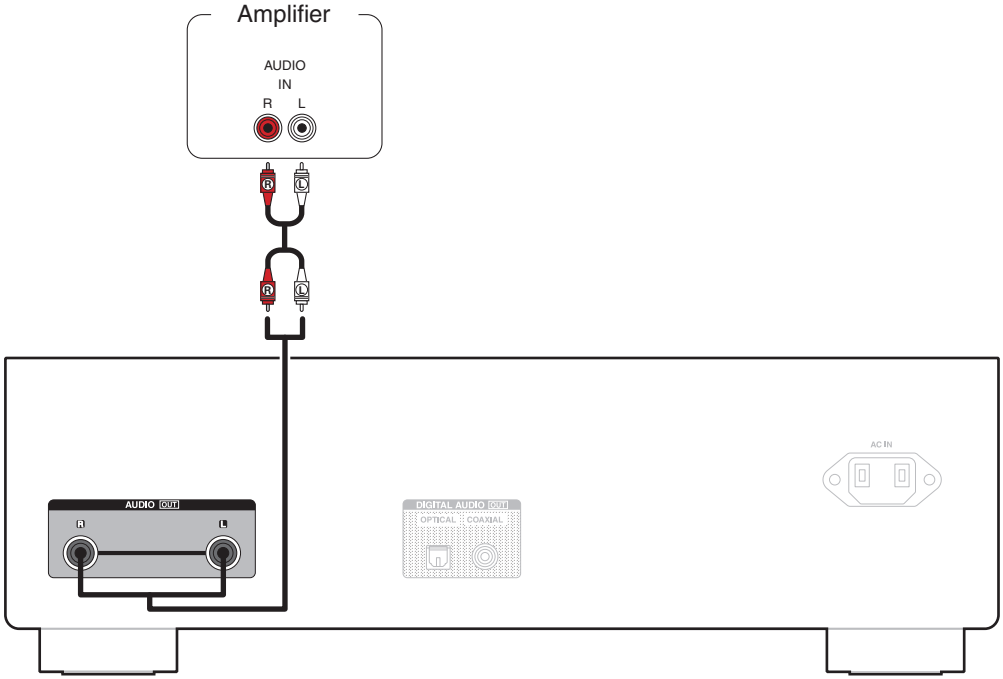
Cables used for connections

Provide necessary cables according to the devices you want to connect.

Audio cable (supplied)	
Optical cable (not supplied)	
Coaxial digital cable (not supplied)	

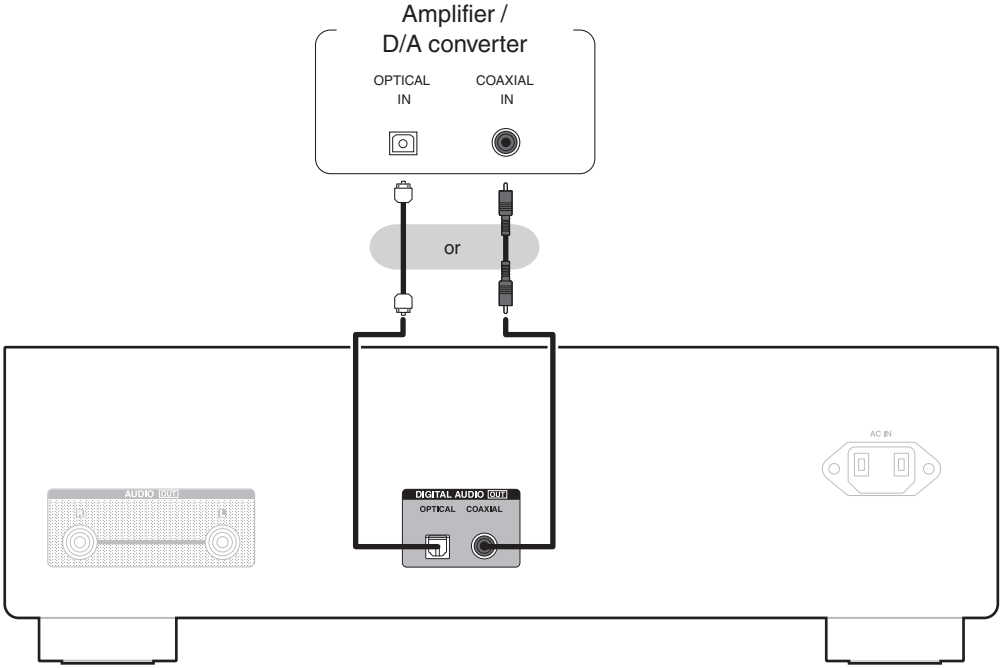
Connecting an amplifier

Use this connection for audio playback via an amplifier.



Connecting to a device with digital audio input connectors

You can enjoy digital audio playback by connecting an amplifier or D/A converter that has a digital audio connector to this unit.

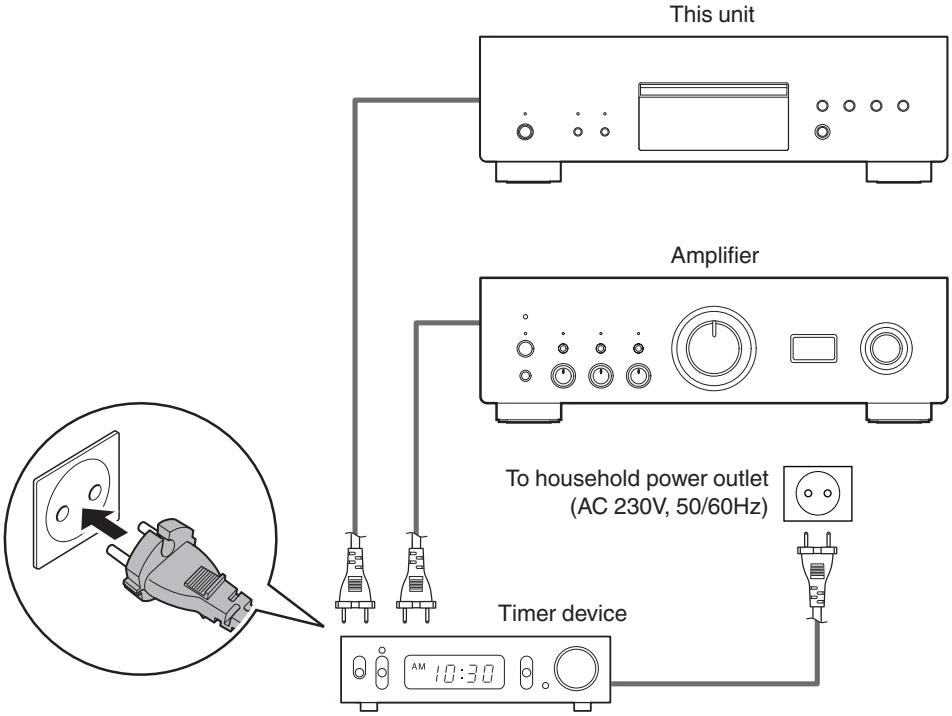


NOTE

- Digital audio output stops during playback of the HD layer of Super Audio CDs, DSD files and files with a sampling frequency of 32 kHz.
- To connect recorder that has a digital audio connector isn't recommended.
- When digital audio is output, the sampling frequency of this output is output as the original sampling frequency without conversion.

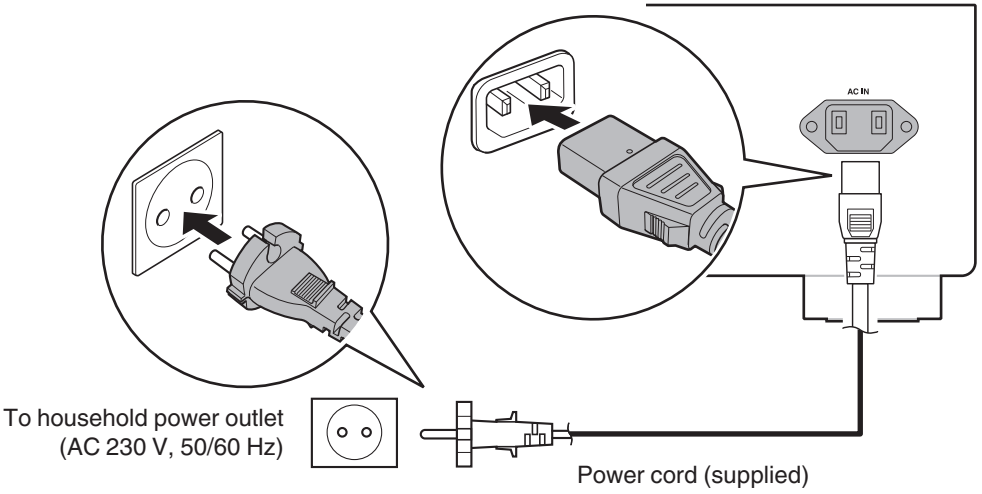
Connecting the timer device

This unit can perform timer play when an amplifier and timer device are connected to this unit. (“Using the timer play function” (☞ p. 30))



Connecting the power cord

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



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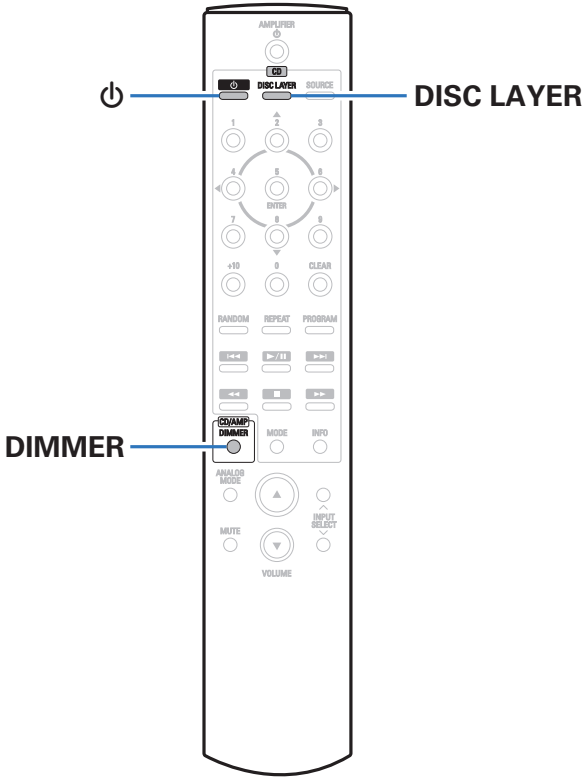
Basic operation



Turning the power on

1 **Press ⏻ on the main unit to turn the power on.**

The power indicator lights green.

- Press ⏻ on the remote control unit to turn on power from standby mode.

Switching the power to standby

1 **Press ⏻.**

The unit switches to standby mode.

NOTE

- Power continues to be supplied to some of the circuitry even when the power is in the standby mode. When leaving home for long periods of time or when going on vacation, either press ⏻ on the main unit to turn off the power, or unplug the power cord from the power outlet.

Switching the display's brightness

The brightness of the display can be adjusted to one of four levels. Switching the display off reduces a source of noise that affects sound quality, enabling higher sound quality playback.

1 Press DIMMER.

- The brightness of the display switches each time the button is pressed.

- The display brightness is set to most brightly by default.
- The DIMMER button also controls the Denon's Integrated Amplifier PMA-3000NE, so the PMA-3000NE can be operated simultaneously with this unit. When the two units have different settings, press and hold in the button for lease 2 seconds to reset them both to the default setting, then make the desired setting.

Switching the pure direct mode

When the pure direct mode is used, the display turns off and digital output stops.

This reduces the source of noise that can adversely affect sound quality, enabling high quality playback.

1 Press PURE DIRECT on the main unit.

The display turned off, and pure direct playback begins.

- To turn off this mode, press PURE DIRECT again.

- In the pure direct mode, DIMMER is not available for operation.
- The display is only turned off during playback.

Setting the top priority playback layer for Super Audio CDs

The layer that is played with priority when the disc is loaded can be set.

1 Check that no disc is loaded.

- If the layer is switched while the disc is being loaded, the playback layer switches for that disc, but the top priority playback layer setting itself does not change.

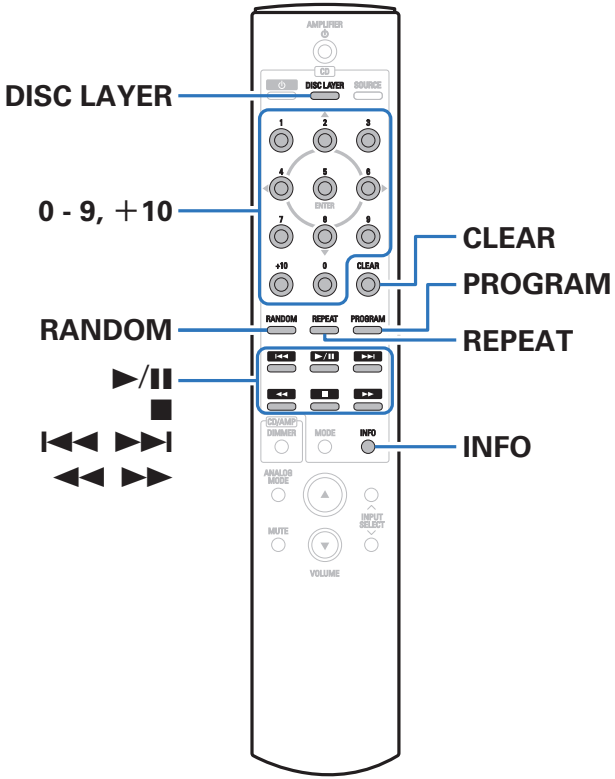
2 Press DISC LAYER and switch to the layer you want to set.

STEREO (Default)**:**	Plays back the 2-channel area of the Super Audio CD.
MULTI:	Plays back the multi-channel area of the Super Audio CD. The analog output of this unit outputs a down-mixed 2-channel signal.
CD:	Plays back the CD layer of the Super Audio CD.

- The layer for playback can also be switched by pressing DISC LAYER on the main unit.
- When a disc is loaded after the setting has been made, the contents recorded on the set layer are displayed.
- If a disc that does not contain the layer set for top priority playback is loaded, the contents recorded on another layer are displayed automatically.
- This setting is stored in the memory and is not cleared even when the disc holder is opened or closed or the power is turned off. To change the setting, repeat the procedure above.
- The priority playback layer cannot be set when a disc is inserted or “Open” is shown on the display.
- If the area and layer have not been set for a disc, the priority playback order is as follows:

  ① STEREO
  ② MULTI
  ③ CD

Playing CDs/Super Audio CDs



Playing CDs/Super Audio CDs

1 **Insert a disc. (☞ p. 43)**

- Press ⏏ on the main unit to open/close the disc tray.

2 **When playing back a Super Audio CD, press DISC LAYER to set the playback layer. (☞ p. 22)**

3 **Press ►/II.**

The ► indicator lights on the display. Playback starts.

NOTE

- Do not place any foreign objects in the disc tray. Doing so could damage the unit.
- Do not push the disc tray in by hand when the power is turned off. Doing so could damage the unit.

Operation buttons	Function
▶/II	Playback / Pause
■	Stop
I◀◀ ▶▶I	Skip to previous track / Skip to next track
◀◀ ▶▶	Fast-reverse / Fast-forward
0 - 9, +10	Select the track
RANDOM	Random playback
REPEAT	Repeat playback • Switching between All-track repeat, Single-track repeat and Repeat off.
INFO	Time display switching • Switching between elapsed time of the current track, remaining time of the current track and remaining time of all tracks. • The time displayed on this unit may differ from this actual time, as it is calculated by truncating to the nearest 1 second.
	Text information recorded on the Super Audio CD appears in the display.

■ Switching the display

Press INFO.

Displays text and time information stored on media.

- The text information is only displayed for Super Audio CD.
- Any characters that cannot be displayed are replaced with "." (period).

■ Discs that can be played back

- See "Discs". (☞ p. 39)

■ Playing a specific track (Direct searching)

1 Use 0 – 9, +10 to select the tracks.

【Example】
Track 4 :
Press number 4 to select track 4.
Track 12 :
Press numbers +10 and 2 consecutively to select track 12.

Playing tracks in a specific order (Program playback)

Up to 20 tracks can be programmed.

1 In the stop mode, press PROGRAM.

"Program" is displayed on the display.

2 Use 0 – 9 and +10 to select the tracks.

【Example】
To program tracks 3 and 12 to be played in that order, press 3, +10 and 2 one after the other.

3 Press ▶/II.

Playback starts in the programmed order.

- When REPEAT is pressed during program playback, the tracks are played repeatedly in the programmed order.

■ Checking the order of the programmed tracks

In the stop mode, press ►►I.
The track numbers are displayed in the programmed order each time the button is pressed.

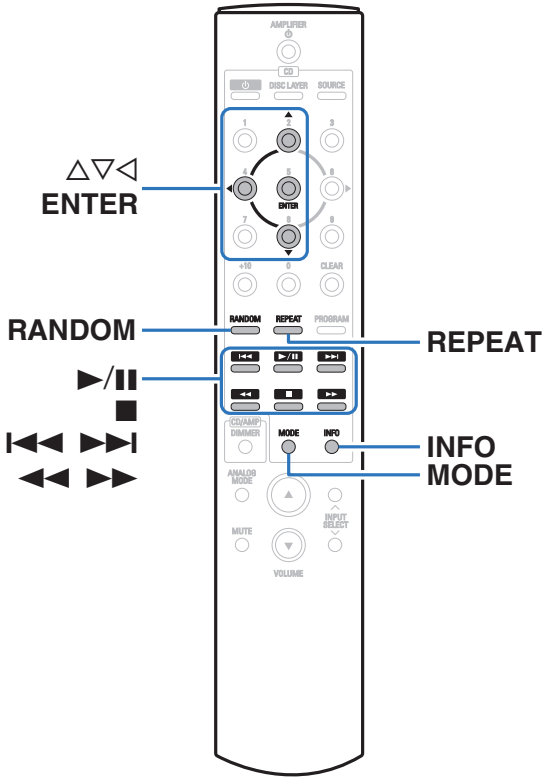
■ To clear the last track programmed

In the stop mode, press CLEAR.
The last track programmed is cleared each time the button is pressed.

■ Clearing the all programmed track

In the stop mode, press PROGRAM.

Playing Data CDs and Data DVDs



- This section explains how to playback music files that are recorded onto a CD-R/-RW or DVD-R/-RW/+R/+RW.
- There are many music distribution sites on the Internet allowing you to download music files. The music (files) downloaded from such sites can be stored on CD-R/-RW or DVD-R/-RW/+R/+RW discs and played on this unit.
- The audio format types and specifications supported by this unit for playback are as follows.
  See “Playable files” for details. (☞ p. 40)
  - **MP3**
  - **WMA**
  - **AAC**
  - **WAV**
  - **FLAC**
  - **Apple Lossless**
  - **AIFF**
  - **DSD**

NOTE

- Copyright-protected files cannot be played.
- Note that depending on the software used for burning and other conditions, some files may not play or display correctly.

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Playing files

1 **Load a CD-R/-RW or DVD-R/-RW/+R/+RW disc containing music files into the disc tray. (☞ p. 43)**

- Press ⏏ on the main unit to open/close the disc tray.

2 **Use △▽◁ to select the folder to be played, then press ENTER.**

3 **Use △▽ to select the file to be played, then press ENTER.**

Playback starts.

Operation buttons	Function
▶/❚❚	Playback / Pause
■	Stop
⏮ ⏭	Skip to previous track / Skip to next track
◀◀ ▶▶	Fast-reverse / Fast-forward
◁	Moving up a level in the folder tree
△ ▽	Select the item
ENTER	Enter the selected item / Playback
MODE	Select the playback range
RANDOM	Random playback
REPEAT	Repeat playback • Switching between All-track repeat, Single-track repeat and Repeat off.
INFO	Switch the display between the album name and the file format

- To play another file while playing from a CD-R/-RW or DVD-R/-RW/+R/+RW, press ◁ to display the folder tree, △▽ to select the file to be played, and then press ENTER.

Switching the display

During playback, press INFO.

- Switch the display between the album name and the file format.
- If a file does not support text information or no track information is recorded, the file name is displayed.
- Any characters that cannot be displayed are replaced with "." (period).

Files that can be played back

- See "Playable files". (☞ p. 40)

Switching the playback range

In the stop mode, press MODE.

- The playback range of a track can be set.

Folder playback mode:	All the files in the selected folder are played. 🗀 is displayed on the display at this time.
All playback mode:	All the files in the disc are played.

- The folder hierarchy is not displayed when "All playback mode" is set as the playback range.

Using the timer play function

1 **Turn on the power of the connected components. (☞ p. 17)**

2 **Switch the amplifier's function to input from the connected unit.**

3 **Press the MODE button on the remote control for 5 seconds or more to turn on the timer play function.**

"Timer Play On" is displayed on the display.

- Pressing the MODE button on the remote control for 5 seconds or more switches the timer play function between on and off.
- "Timer Play On" and "Timer Play Off" are only shown on the display when the timer play function switches between on and off.

4 **Load a disc.**

5 **Set the audio timer for the desired times.**

- Refer also to the owner's manual of the audio timer.

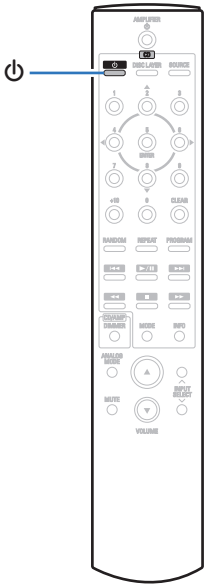
6 **Turn the timer "On".**

- The power of the components connected to the timer turns off.
- When the set time is reached, the power of the different components automatically turns on and playback starts from the first track.

- The timer play does not support the random playback or program playback.

Setting the auto standby mode

When auto standby mode is set to on, if the unit remains in the stopped state and no operations are performed for approximately 15 minutes, the unit automatically switches to standby mode.
The default setting is on.



1 Press and hold ⏻ for 5 seconds or more to switch it on and off.

The display changes as follows each time it is switched on and off.

- When auto standby mode is on: “Auto-Standby On” is displayed.
- When auto standby mode is off: “Auto-Standby Off” is displayed.

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Tips

I want to enjoy analog output audio at higher quality

- Set pure direct which turns digital output and the display off. (☞ p. 21)

I want to playback just the specified folder

- The MODE button to set the playback range to “Folder playback mode”. (☞ p. 29)

I want to display Super Audio CD text

- This unit supports Super Audio CD text. Press the INFO button to switch the display information. (☞ p. 24)

I want to play the multi-channel area of a Super Audio CD is played

- This unit can play multi-channel audio by downmixing to two channels. Press the DISC LAYER button and set “MULTI”. (☞ p. 22)

I want to play all tracks on a DVD-R/-RW/+R/+RW or CD-R/-RW at random

- Random playback can be set by pressing the MODE button and setting “All playback mode” as the playback mode before playback. (☞ p. 29)

Troubleshooting

If a problem should arise, first check the following:

1. Are the connections correct?
2. Is the set being operated as described in the owner's manual?
3. Are the other devices operating properly?

If this unit does not operate properly, check the corresponding symptoms in this section.

If the symptoms do not match any of those described here, consult your dealer as it could be due to a fault in this unit. In this case, disconnect the power immediately and contact the store where you purchased this unit.

Power does not turn on / Power is turned off

Power is not turned on.

- Check whether the power plug is correctly inserted into the power outlet. (☞ p. 18)
- This unit is in standby mode. Press the ⏻ button on the remote control. (☞ p. 20)

Power automatically turns off.

- The auto standby mode setting is on. The auto standby mode automatically switches the unit to standby if there are no operations for more than 15 minutes. To disable the auto standby mode, press and hold the ⏻ button on the remote control for more than 5 seconds when the auto standby mode is enabled. (☞ p. 31)

When the power is turned on, the power indicator flashes in red.

- The protection circuit has been activated due to an error in the internal power supply. Unplug the power cord and contact our customer service center.

Operations cannot be performed through the remote control unit

Operations cannot be performed through the remote control unit.

- Batteries are worn out. Replace with new batteries. (☞ p. 5)
- Operate the remote control unit within a distance of about 7 m from this unit and at an angle of within 30°. (☞ p. 5)
- Remove any obstacle between this unit and the remote control unit.
- Insert the batteries in the proper direction, checking the ⊕ and ⊖ marks. (☞ p. 5)
- The unit's remote control sensor is exposed to strong light (direct sunlight, inverter type fluorescent bulb light, etc.). Move the unit to a place in which the remote control sensor will not be exposed to strong light.
- When using a 3D video device, the remote control unit of this unit may not function due to effects of infrared communications between units (such as TV and glasses for 3D viewing). In this case, adjust the direction of units with the 3D communications function and their distance to ensure they do not affect operations from the remote control unit of this unit.

Display on this unit shows nothing

Display is off.

- Press the DIMMER button, and change the setting to anything other than off. (☞ p. 21)
- Setting pure direct mode to on turns off the display. Press the PURE DIRECT button on the main unit to set pure direct mode to off. (☞ p. 21)

No sound comes out

No sound is produced. Or sound is distorted.

- Check the connections for all devices. (☞ p. 14)
- Insert connection cables all the way in.
- Check that input connectors and output connectors are not reversely connected.
- Check cables for damage.
- Check the amplifier's functions and controls and adjust as necessary.
- When pure direct mode is set to on, digital audio output stops. Set pure direct mode to off to output digital audio. (☞ p. 21)
- Digital audio output stops during playback of the HD layer of Super Audio CDs, DSD files and files with a sampling frequency of 32 kHz.

Sound is interrupted or noise occurs

During playback from the CD-R/CD-RW/DVD-R/DVD-RW/DVD+R/DVD+RW, sound is occasionally interrupted.

- The sound may skip during playback of a CD-R/CD-RW containing a high-resolution audio source.
- This may be caused by poor recording conditions, or the disc itself may be of poor quality. Use a correctly recorded disc.

Cannot playback Discs

Cannot playback when the play button is pressed, or cannot correctly play back a specific part of the disc.

- The disc is dirty or scratched. Either clean the disc, or insert a different disc. (☞ p. 44)

Cannot playback CD-R/CD-RW/DVD-R/DVD-RW/DVD+R/DVD+RW.

- Discs cannot be played back unless they have been finalized. Use a finalized disc. (☞ p. 39)
- This may be caused by poor recording conditions, or the disc itself may be of poor quality. Use a correctly recorded disc.
- Files are created in a format that is not supported by this unit. Check the formats supported by this unit. (☞ p. 40)

“No Disc” is displayed.

- “No Disc” is displayed if the disc is loaded upside-down, if no disc is loaded, when the inserted disc cannot be read because it is not compatible with this unit or is dirty or scratched. Check the disc. (☞ p. 43)

“System Error” is displayed.

- “System Error” is displayed when an error not caused by disc, format, etc., occurs. Contact our customer service center.

“Wrong Format” is displayed.

- “Wrong Format” is displayed for files created in a format that is not supported by this unit. Check the formats supported by this unit. (☞ p. 40)

Playable media

Discs

Playable media	
Super Audio CD	
CD	
CD-R	
CD-RW	
DVD-R/-RW/+R/+RW	

NOTE

- Some discs and some recording formats cannot be played.
- Non-finalized discs cannot be played.

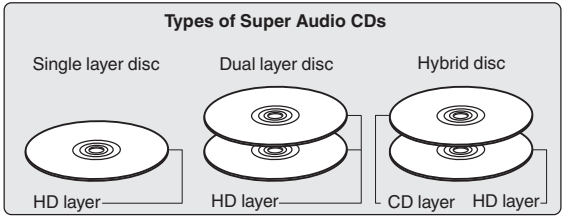
■ Super Audio CD

There are three types of Super Audio CDs:

① Single layer disc
Single layer Super Audio CD with just an HD layer.

② Dual layer disc
Super Audio CD with two HD layers. Enables long playback at a high audio quality.

③ 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.



The HD layer is a layer of high density signals for Super Audio CDs. The CD layer is the layer of signals that can be read on a regular CD player.

- When “MULTI” is selected, down-mixed audio is output to the L and R channels.

■ Compatible formats

	Sampling frequency	Bit rate	Bit length	Playable discs			Extension
				CD-R/ CD-RW	DVD-R/ DVD-RW	DVD+R/ DVD+RW	
MP3	32/44.1/48 kHz	32 – 320 kbps	-	✓	✓	✓	.mp3
WMA	32/44.1/48 kHz	48 – 320 kbps	-	✓	✓	✓	.wma
AAC	32/44.1/48 kHz	16 – 320 kbps	-	✓	✓	✓	.aac/ .m4a
WAV	32/44.1/48/88.2/ 96/176.4/192 kHz	-	16/24 bit	✓*2	✓	✓	.wav
FLAC	32/44.1/48/88.2/ 96/176.4/192 kHz	-	16/24 bit	✓*2	✓	✓	.flac
Apple Lossless*1	32/44.1/48/ 88.2/96 kHz	-	16/24 bit	✓*2	✓	✓	.m4a
AIFF	32/44.1/48/88.2/ 96/176.4/192 kHz	-	16/24 bit	✓*2	✓	✓	.aif/ .aiff
DSD	2.8/5.6 MHz	-	1 bit	–	✓	✓	.dsf/ .dff

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∗2 This item can only be used to play files with a sampling frequency of 32/44.1/48 kHz.

■ Maximum number of playable files and folders

Maximum number of folders : 1,000
Maximum number of files in 1 folder : 2,000

NOTE

- Be sure to give files the extension. Files with any other extensions or files with no extensions cannot be played.
- Recordings you have made should only be used for your personal enjoyment, and as per copyright laws may not be used in other ways without permission of the copyright holder.

- Only music files that are not copyright-protected can be played on this unit.
  - Content downloaded from pay sites on the Internet are copyright protected. Also, files encoded in WMA format when ripped from a CD, etc. on a computer may be copyright protected, depending on the computer's settings.
- The maximum number of files and folders that can be played differs depending on conditions such as the length of the file name or folder name or the number of levels in the folder hierarchy.

Playback order of music files

When there are multiple folders containing music files, the playback order of folders is automatically set when this unit reads the media. The files in each folder are played back in the order in which the files were recorded on the media, from the oldest date and time.

DVD-R/-RW/+R/+RW and CD-R/-RW

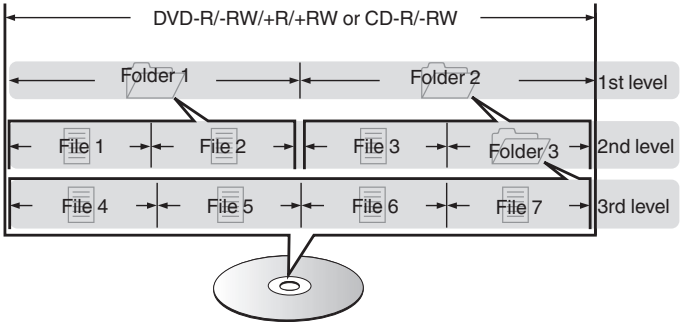
For playback of files on DVD-R/-RW/+R/+RW or CD-R/-RW, files in all folders on the first layer are played first, next on the second layer, then next on the third layer, and so on in this order.

- The playback order displayed on a PC may differ from the actual playback order.
- The playback order with a DVD-R/-RW/+R/+RW and CD-R/-RW may differ, depending on the writing software.

About discs and files

Music files recorded on CD-R/-RW and DVD-R/-RW/+R/+RW 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.



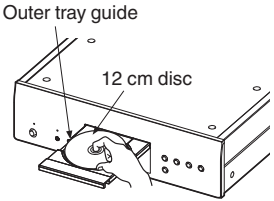
- When writing music files on a DVD-R/-RW/+R/+RW or CD-R/-RW disc, set the writing software's format to "ISO9660". The files may not play properly if they are recorded in other formats. For details, refer to the instructions of your writing software.

Cautions on using media

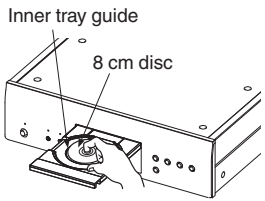
Loading discs

- Set the disc in the tray label side up.
- Make sure the disc tray is fully open when inserting the disc.
- Place the discs flatly, 12 cm discs in the outer tray guide (Figure 1), 8 cm discs in the inner tray guide (Figure 2).

【Figure 1】



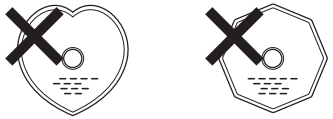
【Figure 2】



- Place 8 cm discs in the inner tray guide without using an adapter.

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 unit.



- Do not push the disc tray in by hand when the power is off. Doing so could damage the unit.
- If the unit is left in a room full of smoke from cigarettes, etc., for long periods of time, the surface of the optical pickup may get dirty, preventing it from receiving signals properly.

How to handle media

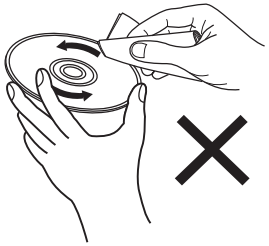
- Do not get fingerprints, oil or dirt on discs.
- Take special care not to scratch discs when removing them from their cases.
- Do not bend or heat discs.
- Do not enlarge the hole in the center.
- Do not write on the labeled (printed) surface with ball-point pens, pencils, etc., or stick new labels 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 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.

Explanation of terms

Ultra AL32 Processing

This is Denon's analog waveform reproduction technology. Interpolation processing is performed in an ideal manner by a custom algorithm for data lost from existing data. By exquisitely restoring data lost at digital recording, playback faithful to the original sound is achieved.

AIFF (Audio Interchange File Format)

This is an uncompressed and lossless format for digital audio. Use AIFF files to burn high-quality audio CDs from imported songs. AIFF files use approximately 10 MB of disk space per minute.

Apple Lossless Audio Codec

This is a codec for lossless audio compression method developed by Apple Inc. This codec can be played back on iTunes, iPod or iPhone. Data compressed to approximately 60 – 70 % can be decompressed to exactly the same original data.

DSD (Direct-Stream Digital)

One of the audio data recording methods, it is the signal aspect used to store audio signals on a super audio CD, and is Δ-Σ modulated digital audio.

FLAC

FLAC stands for Free lossless Audio Codec, and is a lossless free audio file format. Lossless means that the audio is compressed without any loss in quality.

The FLAC license is as shown below.

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MP3 (MPEG Audio Layer-3)

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.

WMA (Windows Media Audio)

This is audio compression technology developed by Microsoft Corporation.

WMA data can be encoded using Windows Media® Player.

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

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.

Dynamic range

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

Downmix

This function converts the number of channels of surround audio to a lower number of channels and plays back according to the system’s configuration.

Bit rate

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

Finalizing

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

Linear PCM

This is an uncompressed PCM (Pulse Code Modulation) signal. Unlike lossy compression audio sources such as MP3, no audio quality or dynamic range deteriorates.

Protection circuit

This is a function to prevent damage to devices within the power supply when an abnormality such as an overload, excess voltage occurs or over temperature for any reason.

Specifications

■ Audio performance

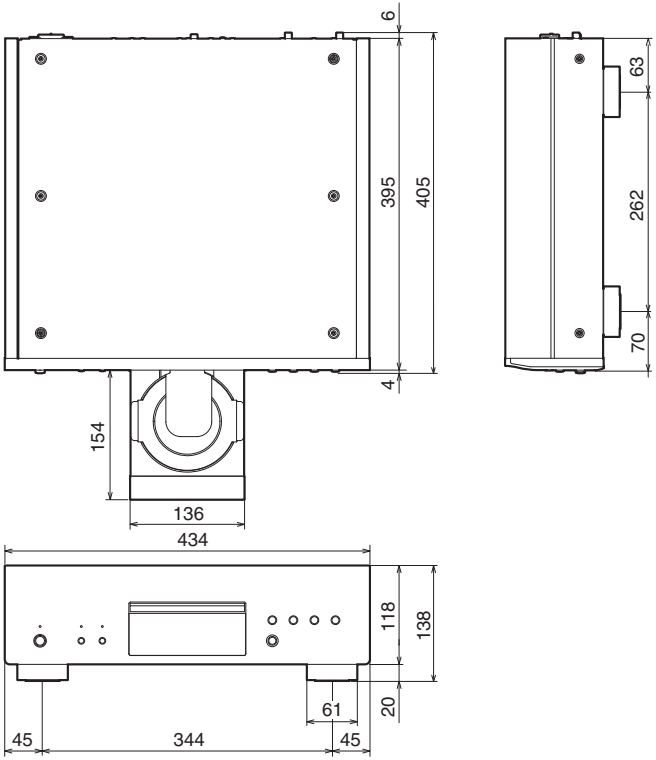
	[Super Audio CD]	[CD]
• **Analog output**		
Channels:	2-channels	2-channels
Playable frequency range:	2 Hz – 100 kHz	2 Hz – 20 kHz
Playable frequency response:	2 Hz – 50 kHz (-3 dB)	2 Hz – 20 kHz (±0.5 dB)
S/N ratio:	122 dB (Audible range)	122 dB
Dynamic range:	115 dB (Audible range)	101 dB
Harmonic distortion:	0.0005 % (1 kHz, Audible range)	0.0015 % (1 kHz)
Wow & flutter:	Below measurable limits	Below measurable limits
Output level:	2.2 V (10 kΩ/kohms terminated)	2.2 V (10 kΩ/kohms terminated)
Signal type:	1-bit DSD	16-bit linear PCM
Sampling frequency:	2.8224 MHz	44.1 kHz
Usable discs:	Super Audio CD	Compact Disc
• **Digital output**		
Coaxial:	-	0.5 Vp-p / 75 Ω/ohms terminated
Optical:	-	-15 — -21 dBm
Emission wavelength:	-	660 nm

■ General

Operating temperature:	+5 ℃ - +35 ℃
Power supply:	AC 230 V, 50/60 Hz
Power consumption:	35 W
Power consumption in standby mode:	0.3 W or less

For the purpose of improvement, the specifications and design are subject to change without notice.

■ Dimensions (Unit : mm)



■ Weight : 16.8 kg

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