

DENON

DA-300USB

Owner's Manual

You can print more than one page of a PDF onto a single sheet of paper.







lay

Rear panel

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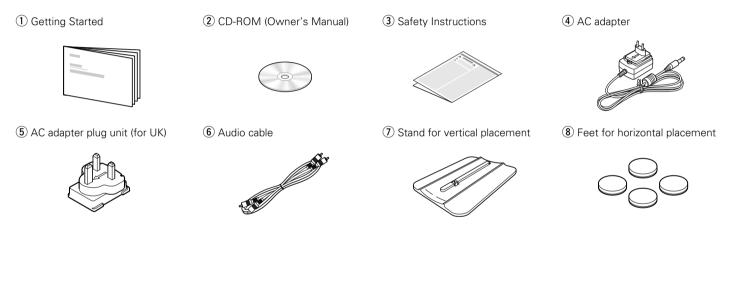


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|----------|-------------|----------|----------|------|----------|

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

Accessories

Check that the following parts are supplied with the product.







Features

High quality sound

• Advanced AL32 Processing and High-precision 32 bit D/A Converter Equipped with Advanced AL32 Processing, Denon's own analog waveform reproduction technology.

The reproducibility of weak signals is enhanced by expanding 16 bit digital data to 32 bit.

Also equipped with a high-performance, 32 bit/192 kHz-compatible D/A converter for analog signal conversion of the digital data expanded with Advanced AL32 Processing.

Isolation design

To prevent audio quality from degrading due to noise from external devices when this unit is connected to external devices such as computers, the ground circuit for the USB input interface device is isolated from the audio circuit.

High performance

• Playback of high resolution audio files supported

DSD signals and PCM signals up to 192kHz/24bit are supported. You can experience high audio quality when you play back music by inputting music files with DSD or PCM signals stored on your computer to this unit through a USB connection.

• Equipped with headphone amplifier

This unit is equipped with a high quality headphone amplifier circuit. This allows you to enjoy playback with high quality audio when you listen to music with headphones as well.

• Vertical placement supported

This unit can be placed either vertically or horizontally. The display automatically rotates according to the placement orientation.

• Equipped with a high visibility organic EL display

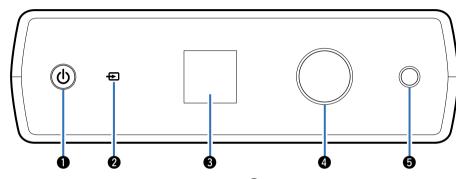
• Equipped with auto standby function that reduces power consumption (Page 23)







Front panel



● Power operation button/indicator (心)

This turns the power on/standby (2) page 15). This is lit as follows according to the power status:

- Power on : Lit
- Standby : Off

lnput source select switch (+>)

This selects the input source (page 15, 21, 22).

3 Display

This displays various pieces of information (12 page 6).

Headphone volume control knob

Adjusts the headphone volume (B page 15).

• Even when the headphones are connected or the volume is adjusted, the volume from the analog audio output connector does not change.

Headphones jack

Used to connect headphones.

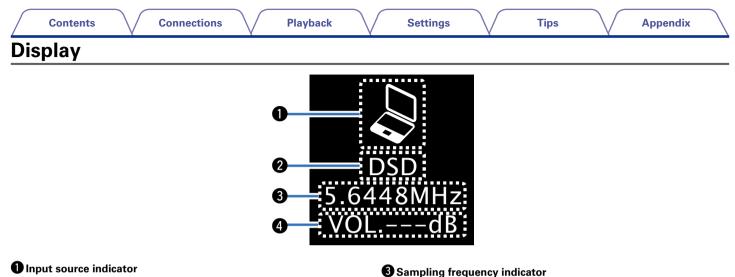
NOTE

• To prevent hearing loss, do not raise the volume level excessively when using headphones.

Rear panel







The following is displayed according to the selected input source.

| USB-DAC | COAXIAL | OPTICAL-1 | OPTICAL-2 |
|---------|---------|-----------|-----------|
| | | | |

2 Input signal format indicator

The input audio signal format is displayed.

The input audio signal sampling frequency is displayed.

4 Headphone volume indicator

The headphone volume level is displayed.

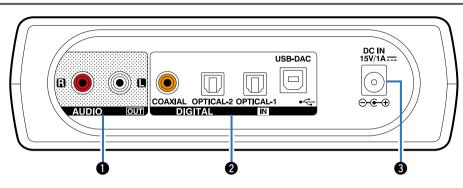
• By default, the volume level is displayed as "--dB" (muted).











AUDIO OUT connectors

Used to connect a amplifier (2 page 11).

2 DIGITAL IN connectors

Used to connect a PC or devices equipped with digital audio output connectors (127 page 11).

3 AC adapter inlet (DC IN)

Used to connect the AC adapter (2 page 12).







| Contents Connections Playback | Settings | Tips Appendix |
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| Connections | | |
| Placing this unit (Page 9) | Cables used for Provide necessary cab | r connections les according to the devices you want to connect. |
| Connecting devices (Page 11) Connecting the AC adapter (Page 12) | Audio cable (Supplied) | |
| | Optical cable (Sold separately) | |
| 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 | Coaxial digital cable (Sold separately) | © - |
| in humming or noise. | USB cable (Sold separately) | |





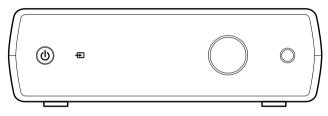


Placing this unit

Place this unit horizontally or vertically according to the location and your preferences.

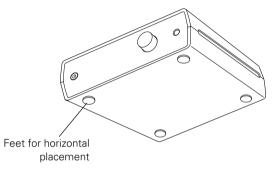
Horizontal placement

When placing this unit horizontally, attach the provided feet for horizontal placement to the bottom.



How to attach the feet for horizontal placement

Attach the feet for horizontal placement to this unit as shown in the diagram below.





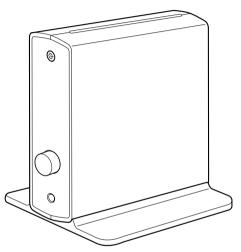


Playback

Appendix

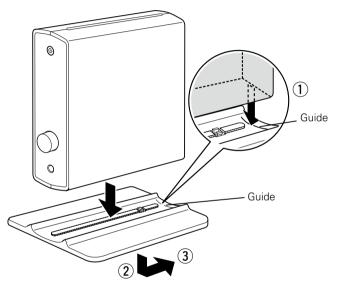
Vertical placement

When placing this unit vertically, attach the stand for vertical placement to this unit with the power button in the upper position as shown in the diagram.



How to attach the stand for vertical placement

- ① Align the rear edge of this unit to the guide position.
- 2 Press down this unit onto the stand until it clicks.
- (\mathfrak{J}) Slide this unit in the arrow direction to align the edge of this unit with that of the stand.



• To remove the stand from this unit, follow the above steps for attaching the stand in the reverse order.

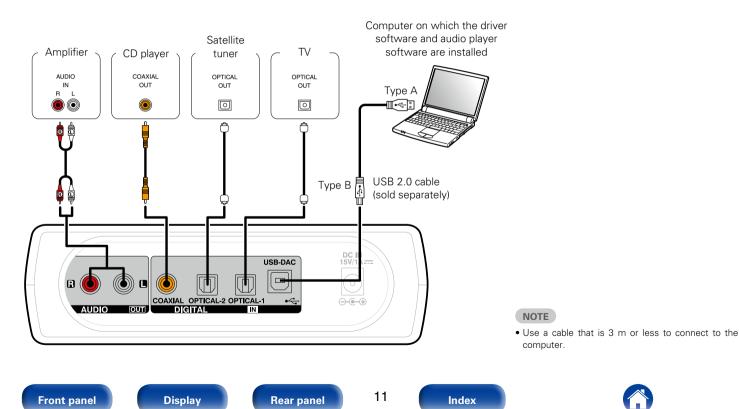




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|--|----------|-------------|----------|----------|------|----------|

Connecting devices

- For USB-DAC playback, install the dedicated driver software and player software on your computer before connecting ("Installing the dedicated driver (Windows OS only)" (Epage 16)).
- Download the driver software from the DA-300USB page of the Denon website.

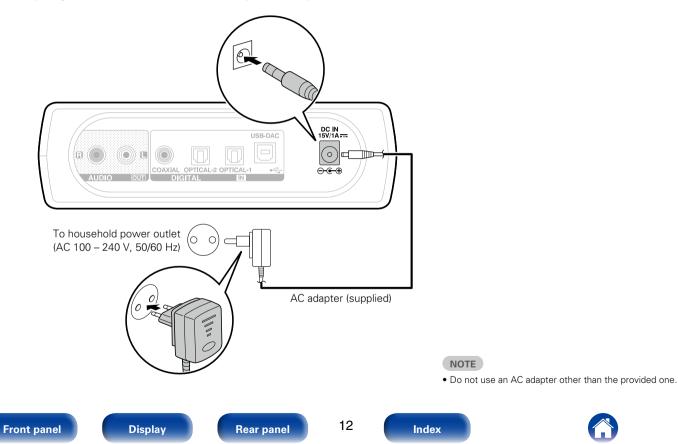




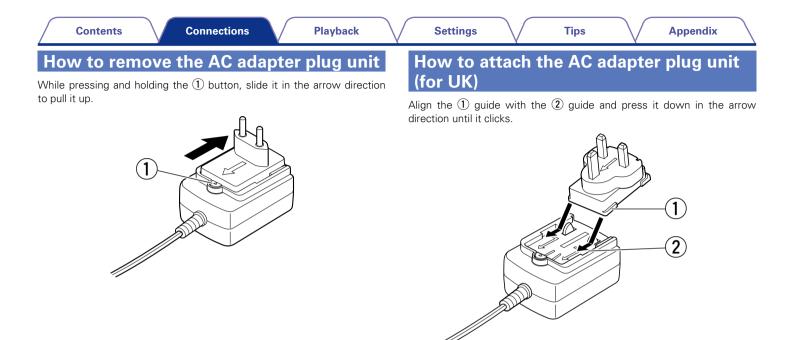


Connecting the AC adapter

After completing all the connections, insert the AC adapter into the power outlet.













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| (Turning the power on (127 page 15) | Connecting and playing back from a computer (USB-DAC) |
| Selecting the input source (127 page 15) | |
| (Adjusting the headphone volume (Ppage 15) | Connect and playback from a digital device (COAXIAL/ OPTICAL-1/OPTICAL-2) (@page 22) |

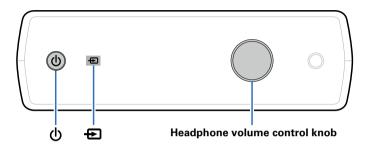








Basic operation



Turning the power on

Press (b) to turn on power to the unit. The power indicator turns on.

Switching the power to standby

Press ().

The power indicator turns off.

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, unplug the AC adapter from the power outlet.

Selecting the input source

1 Touch **E** to switch the input source for playback.

USB-DAC : Plays music files on your computer.

COAXIAL : Plays devices connected to the COAXIAL connector.

 $\ensuremath{\textbf{OPTICAL-1}}$: Plays devices connected to the OPTICAL-1 connector.

OPTICAL-2 : Plays devices connected to the OPTICAL-2 connector.

Adjusting the headphone volume

1 Turn the headphone volume control knob to adjust the volume.

The display shows the volume level.









Enjoy music playback with high audio quality by inputting music files with DSD or PCM signals stored on your computer to this unit through a USB connection.

- Before connecting this unit to your computer, install the driver software in your computer.
- Drivers do not need to be installed for Mac OS.
- As a playback player on your computer, use a commercially available or downloadable player software of your choice that supports the playback of high resolution audio sources.

Computer (recommended system)

OS

- Windows® Vista, Windows 7 or Windows 8
- Mac OS X 10.6.3 or later

USB

• USB 2.0: USB High speed/USB Audio Class Ver.2.0

NOTE

If the computer you use is "Mac OS", please check if the "USB High Speed Audio" format is set below "192000.0 Hz" using the "Audio MIDI Setup".

■ Installing the dedicated driver (Windows OS only)

Tips

□ Installing the driver software

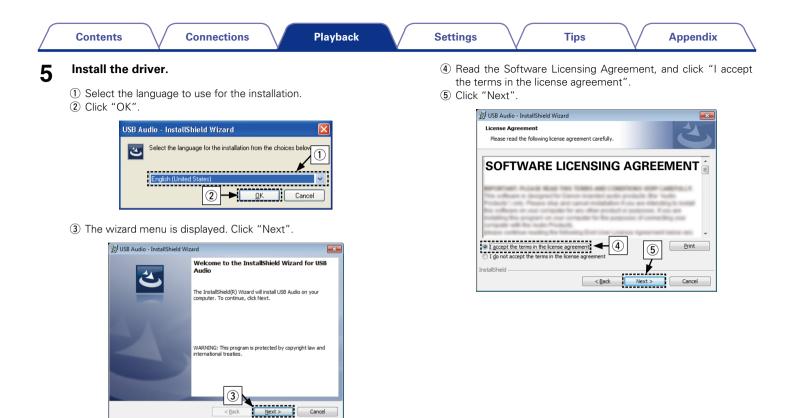
- Disconnect the USB cable between your PC and the unit.
 - The driver software cannot be installed correctly if your PC is connected to the unit by a USB cable. When your PC was started with the USB cable connected, disconnect the USB cable and restart your PC.
- 2 Download the dedicated driver from the "Download" section of the DA-300USB page of the Denon website onto your PC.
- **3** Unzip the downloaded file.
- 4 Select the 32 bit or 64 bit exe file that matches your Windows operating system, and double-click the file.



Rear panel





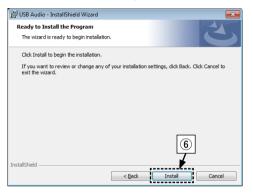








- (6) Click "Install" on the installation start dialog.
 - The installation starts. Do not perform any operation on the PC until the installation is completed.



- ⑦ In the Windows security dialog, select "Always trust software from DandM Holdings Inc.".
- (8) Click "Install".



(9) When the installation is completed, click "Finish".

| 岗 USB Audio - InstallShield Wiz | 😸 USB Audio - InstallShield Wizard | | | | |
|---------------------------------|---|--|--|--|--|
| <u>ح</u> | InstallShield Wizard Completed | | | | |
| | The wizard was interrupted before USB Audio could be completely installed. | | | | |
| | Your system has not been modified. To complete installation at another time, please run setup again. | | | | |
| \geq , | Click Finish to exit the wizard. | | | | |
| | 9 | | | | |
| | < Back Finish Cancel | | | | |

6 With the unit power off, connect the unit and PC using a USB cable (sold separately).

• For the connection procedure, refer to the "Connecting devices" (2) page 11) section.

7 |

Press () on this unit.

• When the unit power is turned on, the PC automatically finds and connects to the unit.

8 Touch 🔁 to change the input source to "USB-DAC".





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9

Checking the installed driver.

- ① Click the "Start" button and click "Control Panel" on the PC.
 - The control panel setting list is displayed.
- (2) Click the "Sound" icon.
 - The sound menu window is displayed.
- ③ Check that there is a checkmark next to "Default Device" under in "Digital Audio Interface" of the "Playback" tab.
 - When there is a checkmark for a different device, click "Denon USB Audio" and "Set Default".

Checking audio output.

Outputs a TEST signal from the PC and checks the audio output from the USB-DAC function.

- ① Select "Digital Audio Interface" and click "Properties".
 - The Digital Audio Interface Properties window is displayed.

| () Sound | X |
|--|------------------------|
| Playback Recording Sounds Communications | |
| Select a playback device below to | o modify its settings: |
| Digital Audio Interface Denon USB Audio Default Device | |
| Speakers Ready | |
| Configure | Set Default |
| | OK Cancel Apply |

Front panel







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|-----------|--|-------------|----------------------|------------------------|-----------------------------|--------------------------------------|
| | Click the "Advanc Select the sampli | ced" tab. | applied to the D/A | • The dedicated driver | nust be installed in the P(| C before this unit is connected to a |

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Index

Rear panel

driver has been installed.

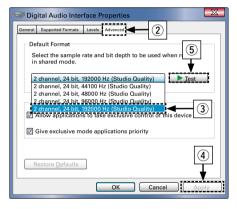
PC. Operation will not occur correctly if connected to the PC before the dedicated

• Operation may fail in some PC hardware and software configurations.

- Select the sampling rate and bit rate to be applied to the D/A converter.
 - It is recommended that "24 bit, 192000 Hz (Studio Quality)" is selected.
- (4) Click "Apply".
- ⑤ Click "Test".

Front panel

• Check that audio from this unit is output from the PC.



Display

Playback

2

- Install the desired player software on your computer beforehand.
- Use the rear panel USB-DAC port to connect this unit to a computer. For the connection procedure, refer to the "Connecting devices" (<u>Pp page 11</u>) section.

Touch 🛨 to change the input source to "USB-DAC".

Start playback on the computer's player software.

The digital audio signal that is being input is shown as follows in the display.

"PCM or "DSD xxxxxkHz" xxxxxMHz"

(xxxxx is the sampling frequency.)

- If the sampling frequency cannot be detected, "Unlock" will be displayed.
- "Unsupported" is displayed when audio signals that are not supported by this unit are input.

■ Files that can be played back

See "Input signals available for USB-DAC playback" (12 page 29).

NOTE

- Perform operations such as playback and pause on the computer.
- You can also control the volume and equalizer on the computer. Enjoy playing music at the desired volume.
- No audio is output from the speakers of your computer while this unit is in operation.
- If the computer is disconnected from this unit while the computer music playback software is running, the playback software may freeze. Always exit the playback software before disconnecting the computer.
- When an abnormality occurs on the computer, disconnect the USB cable and restart the computer.
- The sampling frequency of the music playback software and sampling frequency displayed on this unit may differ.
- Use a cable that is 3 m or less to connect to the computer.











Connect and playback from a digital device (COAXIAL/OPTICAL-1/OPTICAL-2)

Connect digital device to this unit (page 11).

The digital audio signal that is being input is shown as follows in the display.

"PCM

xxxxxkHz"

(xxxxx is the sampling frequency.)

- If the sampling frequency cannot be detected, "Unlock" will be displayed.
- "Unsupported" is displayed when audio signals that are not supported by this unit are input.

Files that can be played back

See "Input signals available for COAXIAL/OPTICAL-1/OPTICAL-2 playback" (127 page 29).

NOTE

• Do not input non-PCM signals, such as Dolby Digital, and DTS. This causes noise and could damage the speakers.

 If the sampling frequency switches, muting may operate for 1 – 2 seconds, cutting the sound.









Setting the Auto Standby mode

You can set the unit to automatically switch to standby mode if the unit is not operated for 30 minutes when there is no audio input. Auto Standby mode is set to on by default.



Turning Auto Standby mode off

Press and hold (b) for more than 5 seconds. The display shows "Auto Standby Off".

Turning Auto Standby mode on

1 Press and hold \bigcirc for more than 5 seconds. The display shows "Auto Standby On".







Tips

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| I am not satisfied with the audio quality of the headphones connector on the TV | (<u>25</u>) |
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| Troubleshooting | (<u>26</u>) |
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| Sound is interrupted or noise occurs | (<u>27</u>) |
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|--------|----------|-----------------|-----------|----------|------------|----------|--------------|------|--------------|----------|--------|
| Ti | ps | | | | | | | | | | |

I want to play audio from the TV with the amplifier connected to this unit

- Connect the digital audio output connector on the TV to the digital audio input connector on this unit (COAXIAL, OPTICAL-1, or OPTICAL-2), and then switch the input source on this unit to the connector being used (COAXIAL, OPTICAL-1, or OPTICAL-2) (127 page 15).
- 2-channel linear PCM digital audio signals can be played back on this unit.

I am not satisfied with the audio quality of the headphones connector on the TV

- Input audio from the TV to this unit, and connect the headphones to the headphones connector on this unit to enjoy high quality audio. Connect the digital audio output connector on the TV to the digital audio input connector on this unit (COAXIAL, OPTICAL-1, or OPTICAL-2), and then switch the input source on this unit to the connected connector (COAXIAL, OPTICAL-1, or OPTICAL-2) (137 page 15).
 - 2-channel linear PCM digital audio signals can be played back on this unit.

I want to reduce power consumption

- Set the Auto Standby mode to on (12) page 23).
- When not using this unit for a long time, disconnect the AC adapter from the power outlet.







Tips

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 items listed in the table below. Should the problem persist, there may be a malfunction. In this case, disconnect the power immediately and contact your store of purchase.

Power does not turn on / Power is turned off

| Symptom | Cause / Solution | Page |
|--------------------------------|--|-------------------------------------|
| Power is not turned on. | Check whether the AC adapter is correctly inserted into the power outlet. Check that this unit is connected to the AC adapter. This unit is in standby mode. Press power operation button (d). | <u>12</u> <u>12</u> <u>15</u> |
| | • Use the AC adapter provided with this unit. | 12 |
| Power automatically turns off. | • The Auto Standby mode is set. The Auto Standby mode switches the unit to standby mode when the unit is not operated for approximately 30 minutes. To disable the Auto Standby mode, press and hold the power operation button ($\mathbf{\Phi}$) for more than 5 seconds when the Auto Standby mode is enabled. | <u>23</u> |





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|----------------------------------|--|-----------|
| No sound comes out | | |
| Symptom | Cause / Solution | Page |
| No sound is produced or sound is | Check the connections for all devices. | <u>11</u> |
| distorted. | Insert connection cables all the way in. | - |
| | Check cables for damage. | - |
| | • Check the amplifier input source and switch to the connector that is connected to this unit. | - |
| | Check if the appropriate input source is selected. | <u>15</u> |
| | • The headphone volume is set to the minimum level. Adjust the volume level properly. | <u>15</u> |

Sound is interrupted or noise occurs

| Symptom | Cause / Solution | Page |
|---|--|------|
| Sound is interrupted during playback of tracks saved on a computer. | • Do not start applications other than the player software while playing music on your computer. | - |





| - | <u> </u> | t - | nto | |
|-----|----------|------------|-----|--|
| - U | on | ιe | nts | |

Files on my computer cannot be played

| Symptom | Cause / Solution | Page |
|---|---|----------------------------|
| This unit is not recognized by my computer. | Check the OS of your computer.When your computer is running on Windows, a dedicated driver software should be installed. | <u>16</u> <u>16</u> |
| "Unlock" is displayed. | • When digital audio signals cannot be detected properly, "Unlock" is displayed. | <u>21</u> |
| "Unsupported" is displayed. | "Unsupported" is displayed when audio signals that are not supported by this unit are input. Check the settings on your computer or player software. If the computer you use is "Mac OS", please check if the "USB High Speed Audio" format is set below "192000.0 Hz" using the "Audio MIDI Setup". | <u>21</u> , <u>29</u> - |

■ Audio from digital devices cannot be played back (COAXIAL/OPTICAL-1/OPTICAL-2)

| Symptom | Cause/Solution | Page |
|-----------------------------|--|-----------------------|
| "Unlock" is displayed. | • When digital audio signals cannot be detected properly, "Unlock" is displayed. | <u>22</u> |
| "Unsupported" is displayed. | • "Unsupported" is displayed when audio signals that are not supported by this unit are input. Check the audio output signal format from your digital device. | <u>22</u> , <u>29</u> |

■ The input source does not switch

| Symptom | Cause/Solution | Page |
|---|---|-----------|
| The input source does not switch even when the input source select switch (| • Touch the input source select switch (->>>) correctly with your finger. | <u>15</u> |







Types of digital audio input signals available for playback

Input signals available for USB-DAC playback

| Types of input signals available for playback | Input signal specifications |
|---|--|
| DSD (2-channel) | Sampling frequency : 2.8224/5.6448 MHz Bit length : 1 bit Transmission system : Native/DoP |
| Linear PCM (2-channel) | Sampling frequency : 32/44.1/48/88.2/96/176.4/192 kHz Bit length : 16/24 bit |

Input signals available for COAXIAL/ OPTICAL-1/OPTICAL-2 playback

| Types of input signals available for playback | Input signal specifications |
|---|---|
| Linear PCM | Sampling frequency : |
| (2-channel) | 32/44.1/48/64/88.2/96/176.4/192 kHz Bit length : 16/24 bit |





Explanation of terms

Α

Advanced AL32 Processing

Equipped with Advanced AL32 Processing, Denon's own analog waveform reproduction technology.

The reproducibility of weak signals is enhanced by expanding 16 bit digital data to 32 bit.

D

DSD (Direct Stream Digital)

This is a digital audio recording technology used for Super Audio CD. This enables recording and playback of audio very close to the original, allowing you to enjoy high quality audio.

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.

Linear PCM

This is an uncompressed PCM (Pulse Code Modulation) signal. Unlike lossy compression audio sources such as MP3, the audio quality and dynamic range are not reduced.

S 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.







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| Tr | rademark | info | ormation | | | | | | | |
| | | | | | | | | | | |



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| Specifications | | |
|------------------------------|--------------------------------------|-------------------------------------|
| Audio performance | [DSD signal] | [PCM signal] |
| • Analog output | | |
| Channels: | 2 channels | 2 channels |
| Playable frequency range: | 2 Hz – 100 kHz | 2 Hz – 96 kHz |
| Playable frequency response: | 2 Hz – 50 kHz (–3 dB) | 2 Hz – 20 kHz (±0.5 dB) |
| S/N: | 112 dB (Audible range) | 112 dB |
| Dynamic range: | 105 dB (Audible range) | 105 dB |
| Harmonic distortion: | 0.0018 % (1 kHz, Audible range) | 0.0018 % (1 kHz) |
| Output level: | 2.0 V (10 kΩ/kohms) | 2.0 V (10 kΩ/kohms) |
| Sampling frequency: | 2.8224/5.6448 MHz | 32/44.1/48/64/88.2/96/176.4/192 kHz |
| • Digital input | | |
| Format: | Digital audio interface (Linear PCM) | |
| Coaxial: | 0.5 Vp-p / 75 Ω/ohms | |
| Optical: | –27 dBm or lator | |
| Emission wavelength: | 660 nm | |
| General | | |
| AC adapter: | Input : 100 – 240 V, 50/60 Hz | |
| • | Output : DC 15 V, 1 A | |

Rear panel





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Playback

Connections

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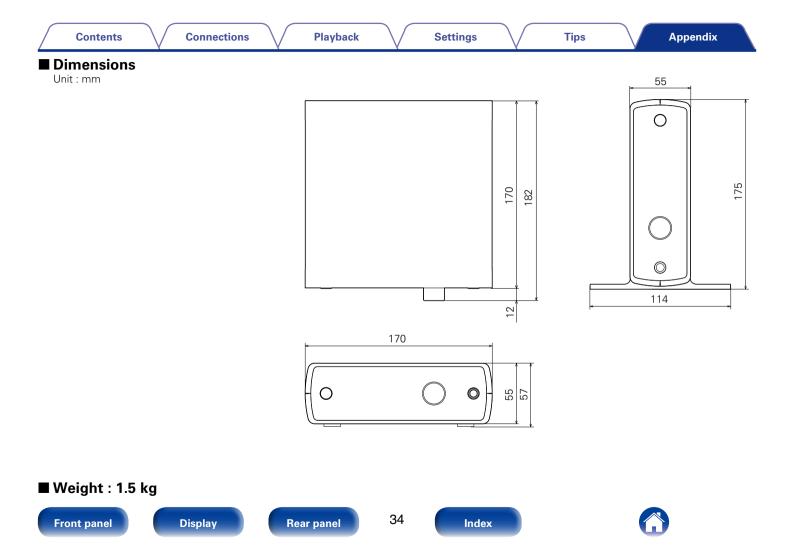
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