

DENON

PROFESSIONAL

DN-300C

User Guide

English (3 – 13)

User Guide

Introduction

Box Contents

DN-300C	User Guide
Power Cable	Safety & Warranty Manual
Remote Control	

Support

For the latest information about this product (documentation, technical specifications, system requirements, compatibility information, etc.) and product registration, visit denonpro.com.

Safety Instructions

Please also see the included *Safety & Warranty Manual* for more information.

Before turning the power on: Make sure all connections are secure and correct and that there are no problems with the connection cables.

Power is supplied to some of the circuitry even when the unit is powered off. When the unit will not be used for long periods of time, disconnect the power cable from the power outlet.

Proper ventilation: If the unit is left in a room which is not properly ventilated or is full of smoke from cigarettes, dust, etc. for long periods of time, the surface of the optical pickup may get dirty, causing incorrect operation.

About condensation: If there is a major difference in temperature between the inside of the unit and the surroundings, condensation may form inside the unit, causing the unit not to operate properly. If this happens, let the unit sit for an hour or two while powered off, and wait until there is little difference in temperature before using the unit.

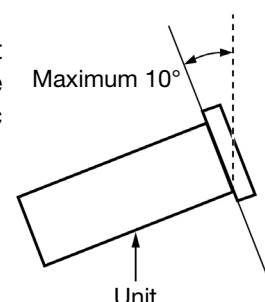
Cautions on using mobile phones: Using a mobile phone near this unit may cause noise. If this occurs, move the mobile phone away from this unit when it is in use.

Moving the unit: Before moving the unit, turn off its power and disconnect the power cable from the power outlet. Next, disconnect its connection cables from other devices before moving it.

About care: Wipe the cabinet and control panel clean with a soft cloth.
Follow the instructions when using a chemical cleaner.
Do not use benzene, paint thinner, insecticide, or other organic solvents to clean the unit. These materials can cause material changes and discoloration.

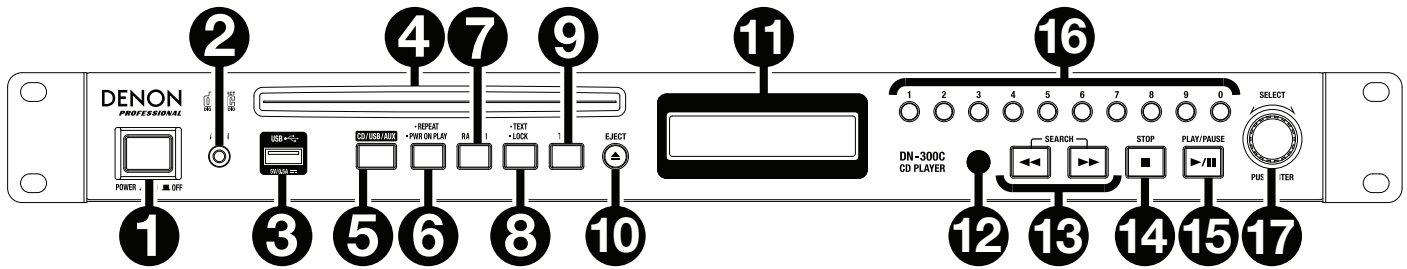
Rackmount warnings: EIA standard 19-inch (48.3cm) rack
(required rack specifications for mounting the unit in a rack) 1U-size installation compatible rack
Rack that has a guide rail or shelf board that can support this device

Rack installation: This product will work normally when the player unit is mounted within 10° off the vertical plane at the front panel. If the unit is tilted excessively, the disc may not load or unload properly. (See image.)



Features









Front Panel

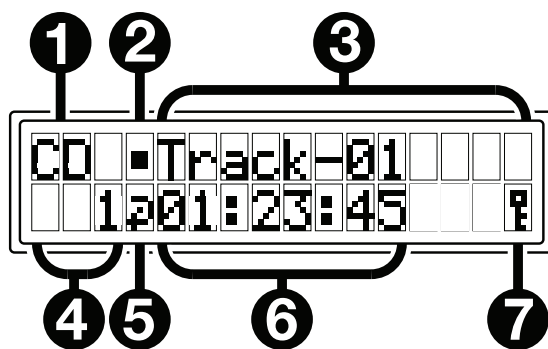


1. **Power Button:** Press this button to turn the unit on or off. Make sure the **AC In** is properly connected to a power outlet. Do not turn the unit off during media playback—doing so could damage your media.
2. **Aux In:** Connect an optional device to this input using a 1/8" (3.5mm) TRS cable. See [Operation > Playing Audio from an External Device](#) for more information.
3. **USB Port:** Connect a mass-storage-class USB device to this port. See [Operation > Playing Audio Files](#) for more information.
4. **CD Slot:** Insert a CD into this slot. See [Operation > Playing Audio CDs](#) or [Playing Audio Files](#) for more information.
5. **CD/USB/Aux Button:** Press this to enter Media Selection screen. See [Operation > Selecting Media Playback Mode](#) for more information.
6. **Repeat Button:** In CD or USB Mode, press this button to switch between Repeat Playback modes: **Repeat One**, **Repeat All**, and **Repeat Off**. See [Operation > Playing Audio CDs](#) or [Playing Audio Files](#) for more information.
Power-On Play Button: Press and hold this button to turn Power-On Play on or off. See [Operation > Additional Functions > Power-On Play](#) for more information.
7. **Random Button:** In CD Mode, press this button to cycle through Normal Play Mode, Single Play Mode, and Random Play Mode. In USB Mode, press this button to turn Random Play Mode on or off. See [Operation > Playing Audio CDs](#) or [Playing Audio Files](#) for more information.
8. **Text Button:** In CD or USB Mode, press this button to switch the display between the file name and other text information. See [Operation > Playing Audio Files](#) for more information.
Lock Button: Press and hold this button to turn Panel Lock on and off. See [Operation > Additional Functions > Panel Lock](#) for more information.
9. **Time Button:** In CD or USB Mode, press this button to switch the Time Mode in the **display**. See [Operation > Playing Audio CDs](#) or [Playing Audio Files](#) for more information.
10. **Eject Button:** Press this to eject the CD in the CD slot.
11. **Display:** This screen indicates the unit's current operation. See [Display](#) for more information.
12. **Remote Sensor:** Point the remote control at this sensor when operating it. See [Remote Control > Operating Range](#) for more information.
Note: If the **remote sensor** is exposed to direct sunlight, strong artificial light (like from an interverter-type fluorescent lamp), or infrared light, the unit or remote control may not function properly.
13. **Search Buttons:** In CD or USB Mode, press and hold one of these buttons to rewind/fast-forward. The track will rewind/fast-forward at **5** times the normal playback speed.
14. **Stop Button:** Press this button to stop playback.
15. **Play/Pause Button:** Press this button to start, resume, or pause playback.
16. **Number Buttons (0–9):** In CD Mode, Press one of these buttons to directly select a track to play. If the track number is two digits, press the buttons in succession (e.g., **1** then **2** for Track 12). See [Operation > Playing Audio CDs](#) for more information.
17. **Jog Dial:** Turn this dial to browse the options shown in the display (e.g., media types in the Media Selection screen, files/folders in CD or USB Mode, etc.). Press this dial to confirm a selection.

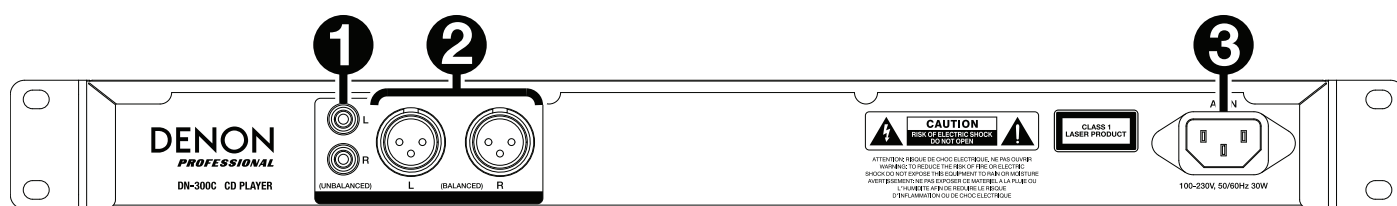
Display

- Media Type:** This is the currently selected media: **CD**, **USB**, or **Aux**. See [Operation > Selecting Media Playback Mode](#) for more information.
- Playback Operation Icon:** This shows various symbols to indicate the current playback status:

 Playing	 Rewinding
 Paused	 Fast-Forwarding
 Stopped	
- Information:** This shows extra information about the media being played or the current station.
- Track/File Number:** This is the number of the track or file.
- Function Icons:** This shows various symbols to indicate these current functions:
 -  Random Playback (see [Operation > Playing Audio CDs](#) or [Playing Audio Files](#) for more information)
 -  Repeat One (see [Operation > Playing Audio CDs](#) or [Playing Audio Files](#) for more information)
 -  Repeat All (see [Operation > Playing Audio CDs](#) or [Playing Audio Files](#) for more information)
- Time:** In CD and USB Mode, this is how much time has elapsed or is remaining, shown as **hh:mm:ss** (hours, minutes, and seconds). See [Operation > Playing Audio CDs](#) or [Playing Audio Files](#) for more information.
- Panel Lock:** When Panel Lock is on, a key symbol appears here. See [Operation > Additional Functions > Panel Lock](#) for more information.



Rear Panel



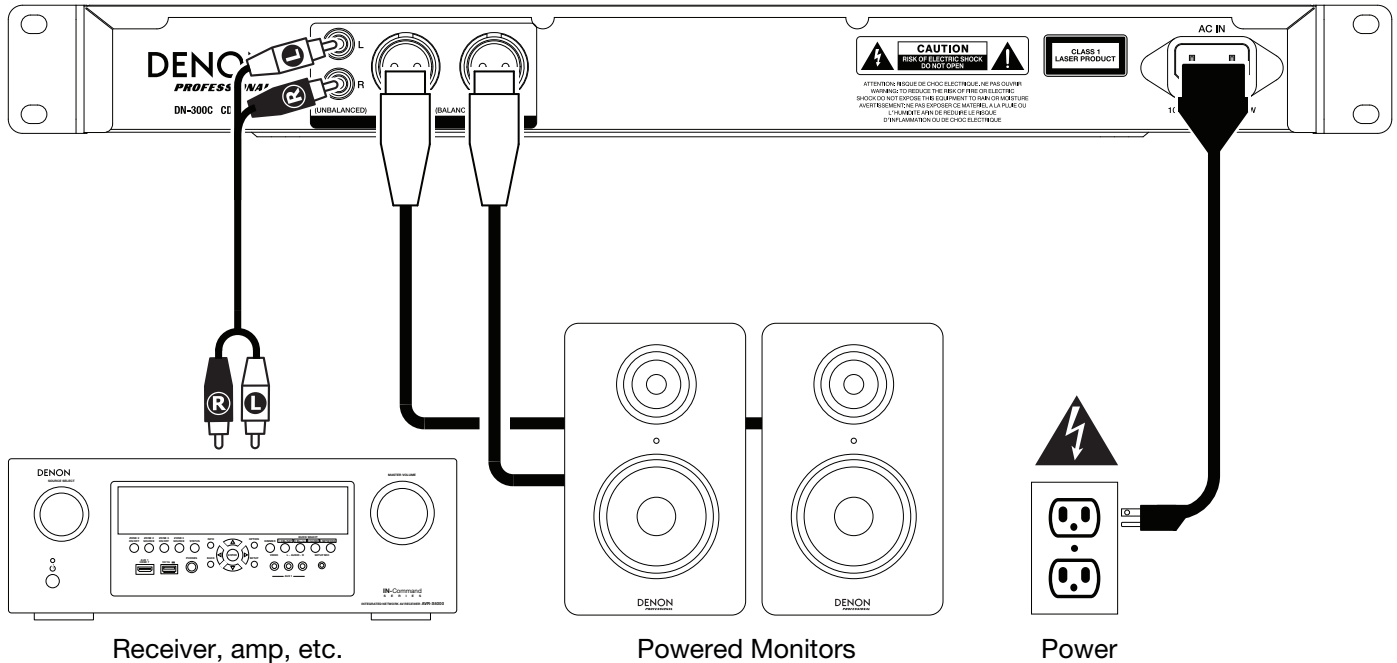
- Outputs (unbalanced RCA):** These outputs send the audio signals from a CD, USB device (mass storage class), and device connected to the Aux In. Use RCA cables to connect these outputs to external speakers, sound system, etc. See [Setup](#) for more information.
- Outputs (balanced XLR):** These outputs send the audio signals from a CD, USB device (mass storage class), and device connected to the Aux In. Use XLR cables to connect these outputs to external speakers, sound system, etc. See [Setup](#) for more information.
- AC In:** Use the included power cable to connect this input to a power outlet. See [Setup](#) for more information.

Setup

Important: Connect all cables securely and properly (with stereo cables: left with left, right with right), and do not bundle them with the power cable.

1. Use XLR cables or a stereo RCA cable to connect the **Outputs (balanced or unbalanced)** to the analog inputs of your external receiver, amp, powered monitors, etc.
2. After completing all the connections, use the included power cable to connect the **AC In** to a power outlet.

Example:



Operation

Selecting the Media Playback Mode

To select what kind of media you want to play:

1. When the unit is stopped or paused, press the **CD/USB/Aux Button**.
2. To cycle through the available options, turn the **Jog Dial** or press the **CD/USB/Aux Button**.
 - **CD:** audio CD or CD with audio files (**CDR**) (see [Playing Audio CDs](#) and [Playing Audio Files](#))
 - **USB:** USB device (mass storage class) (see [Playing Audio Files](#))
 - **Aux:** device connected to **Aux In** (see [Playing Audio from an External Device](#))

Important: The DN-300C will remember this setting even if you power off the unit.

Playing Audio CDs

To play audio CDs:

1. If the unit is off, press the **Power Button** to power it on.

Important: Do not insert a CD when the power is off. Doing so may damage the unit.

2. Insert a CD into the **CD slot**. (Hold the edges of the CD without touching the recorded surface. Be careful not to trap your fingers when the disc is drawn into the unit.)

Important: This unit can play finalized discs only. (Finalization is the process that makes recorded CD-R discs playable on compatible players.)

3. Select **CD** as the media type (described in [Selecting the Media Playback Mode](#)).

The CD will start playing automatically.

In CD Mode, you can perform any of the following operations:

- **To start, resume, or pause playback**, press the **Play/Pause Button**.
- **To stop playback**, press the **Stop Button**.
- **To rewind or fast-forward through the track**, press and hold one of the **Search Buttons**. The track will rewind/fast-forward at **5** times the normal playback speed. To resume playback, release the button.
- **To skip directly to a track:**
 1. Press one of the **Number Buttons (0–9)** to enter the desired track number. If the track number is two digits, press the buttons in succession (e.g., **1** then **2** for Track 12).
 2. Turn the **Jog Dial** on the unit, and then press it.
- **To select a Repeat Playback mode**, press the **Repeat Button**. It will cycle through **Repeat One** (the same track will repeat indefinitely), **Repeat All** (the list of all tracks will repeat indefinitely), and **Repeat Off** (no tracks will repeat).
- **To select the Play Mode**, press the **Random Button**. It will cycle through **Normal** (the CD will play from the current track to the end of the CD and then stop), **Single** (the current track will play until its end and then stop), and **Random** (the tracks will play in a random order [for up to **256** tracks]).
- **To change the Time Mode in the display**, press the **Time Button**. It will cycle through **Elapsed** (how much time has elapsed of the current track), **Remaining** (how much time remains of the current track), and **Total Remaining** (how much time remains of all remaining tracks).
- **To eject a CD**, press the **Eject Button** when the unit is stopped or paused. **Ejecting** will appear in the display while ejecting the CD. **No Disc** will appear when there is no disc in the **CD slot**.

For information about playing CDs with audio files, please see [Playing Audio Files](#).

Important: Please see [Other Information > CDs](#) to learn more about the types of CDs the DN-300C supports and for more information about CD handling and care.

Playing Audio Files

To play audio files on a CD or USB device:

1. If the unit is off, press the **Power Button** to power it on.

Important: Do not insert a CD when the power is off. Doing so may damage the unit.

2. Do one of the following:

- Insert a CD into the **CD slot**. (Hold the edges of the CD without touching the recorded surface. Be careful not to trap your fingers when the disc is drawn into the unit.)

Important: This unit can play finalized discs only. (Finalization is the process that makes recorded CD-R discs playable on compatible players.)

- Connect your USB device (mass storage class) to the **USB Port**.

Note: You can play **MP3** files on a CD-R or CD-ROM, or you can play **MP3** files on a USB device.

3. Select your desired media type: **CD** or **USB** (described in [Selecting the Media Playback Mode](#)).
The first file will start playing automatically.

In CD or USB Mode, you can perform any of the following operations:

- **To start, resume, or pause playback**, press the **Play/Pause Button**.
- **To stop playback**, press the **Stop Button**.
- **To rewind or fast-forward through the track**, press and hold one of the **Search Buttons**. The track will rewind/fast-forward at **5** times the normal playback speed. To resume playback, release the button.
- **To select another folder or audio file**, follow the steps described in [Step 4](#) above.
- **To show different track information in the display**, press the **Text** button. It will cycle through the file name, title name, artist name, and album name.
- **To select a Repeat Playback mode**, press the **Repeat Button**. It will cycle through **Repeat One** (the same track will repeat indefinitely), **Repeat All** (the list of all tracks will repeat indefinitely), and **Repeat Off** (no tracks will repeat).
- **To select the Play Mode**, press the **Random Button**. It will cycle through **Normal** (the CD will play from the current track to the end of the CD and then stop), **Single** (the current track will play until its end and then stop), and **Random** (the tracks will play in a random order [for up to **256** tracks]).
- **To change the Time Mode in the display**, press the **Time Button**. It will cycle through **Elapsed** (how much time has elapsed of the current track) and **Remaining** (how much time remains of the current track).
- **To eject a CD**, press the **Eject Button**. **Ejecting** will appear in the **display** while ejecting the CD. **No Disc** will appear when there is no disc in the **CD slot**.
- **To remove a USB device**, gently remove it from the **USB Port** when it is **not playing**. (Removing a USB device while it is playing can damage it.)

Important: Please see [Other Information](#) to learn more about the types of CDs and USB devices the DN-300C supports.

Playing Audio from an External Device

To play audio on an external device (e.g., smartphone, computer, portable music player, etc.) connected to the Aux In:

1. If the unit is off, press the **Power Button** to power it on.
2. Connect the 1/8" (3.5 mm) stereo/headphone output of your external device to the **Aux In**.
3. Select **Aux** as the media type (described in [Selecting the Media Playback Mode](#)). If your external device is connected, **AUX Connected** will appear in the **display**. If your external device is not connected, **AUX Disconnect** will appear in the **display**.
4. To start playback, press the **Play** button on your external device.



Important: All buttons except for **Power**, **CD/USB/Aux**, and **Eject** will be locked/disabled.

Additional Functions

Panel Lock

Use the Panel Lock feature to prevent accidental changes to the unit. When Panel Lock is activated, all buttons except for the **Power Button** and **Text/Lock** button are locked/disabled on the unit. (The remote control will still function normally.)

To activate or deactivate **Panel Lock**, press and hold the **Text/Lock** button.

- When activated, **P-Lock ON** and  will appear in the **display**.
- When deactivated, **P-Lock OFF** will appear in the **display**, and  will disappear.

Power-On Play

Use the Power-On Play feature to set the unit to automatically start playback of the last media it was playing when it was turned off. Playback will start from the first track or audio file of the media.

Important: Power-On Play will not work if the previously played media was in Aux Mode.

To activate or deactivate **Power-On Play**, press and hold the **Pwr On Play** button.

- When activated, **P-OnPlay On** will appear in the **display**.
- When deactivated, **P-OnPlay Off** will appear in the **display**.

Other Information

CDs

When playing audio CDs, note the following:

- DN-300C can play **Music CDs** and **CD-R discs**. Both are usually marked with the **Compact Disc Digital Audio** logo (see image).
- Do not play discs in non-circular shapes (heart-shaped discs, octagonal discs, etc.; see image) or discs that have been repaired with adhesive or tape. These can damage the unit.
- DN-300C can play finalized discs only. (Finalization is the process that makes recorded CD-R discs playable on compatible players.)
- Depending on the software used to burn a CD (or other conditions), some CDs may not play correctly.



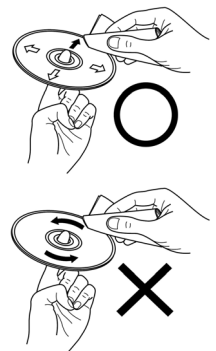
When playing CDs with audio files, note the following:

- The writing software format must be **ISO9660 Level 1**.
- You can have up to **300** folders and up to **8** folder levels, including the root directory.
- You can have up to **300** audio files. If the CD contains more than **300** files, some audio files may not play or appear correctly.
- File names, folder names, and text characters can use up to **255** characters. Only uppercase letters, lowercase letters, numbers, and symbols can be displayed. Japanese file names will not be shown.
- Copyright-protected files might not play properly and/or may appear as **Unknown File**.
- Depending on the software used to burn a CD (or other conditions), some files may not play or appear correctly.
- When playing audio files on a CD, DN-300C supports the following tag data:
 - **ID3 tags:** Version 1.x and 2.x
 - **META-tags:** compatible with title, artist, and album names
 - **Sample rate:** 44.1 kHz
 - **Bit rate:** 32 kbps to 320 kbps
 - **Format:** MPEG1 Audio Layer 3
 - **File extension:** .mp3

Be careful not to scratch discs when removing them from their cases. Do not bend or heat discs, and do not enlarge the hole in the center of the disc. Do not write on the labeled surface of the disc or attach new labels to discs.

If fingerprints, dirt, or condensation are on a disc, clean it with a commercially available disc cleaning set or a soft, dry cloth. Gently wipe it from the inside towards the outside, not in a circular motion. Do not use record spray, antistatic agents, benzene, thinner, or other solvents.

After using discs, remove them from the unit and store them in their cases to protect them from dust, scratches, warping, etc. Do not store discs in places exposed to long periods of direct sunlight or places exposed to heat, dust, humidity, etc.



USB Devices

When playing audio files on a USB device, note the following:

- DN-300C does not charge any connected USB device and does not support USB hubs or USB extension cables.
- DN-300C supports USB devices that are mass storage class or compatible with MTP.
- DN-300C supports **FAT16** or **FAT32** file systems only.
- You can have up to **999** audio files. If the USB device contains more than **1000** files, some audio files may not play or appear correctly.
- File names, folder names, and text characters can use up to **255** characters. Only uppercase letters, lowercase letters, numbers, and symbols can be displayed. Japanese file names will not be shown.
- Copyright-protected files might not play properly and/or may appear as **Unknown File**.

When playing audio files on a USB device, DN-300C supports the following tag data:

- **ID3 tags:** Version 1.x and 2.x
- **Sample rate:** 44.1 kHz
- **Bit rate:** 32 kbps to 320 kbps
- **Format:** MPEG1 Audio Layer 3
- **File extension:** .mp3

Troubleshooting

If you encounter a problem, do the following:

- Make sure all cables, devices, antennae, and/or media are properly and securely connected.
- Make sure you are using the unit as described in this *User Guide*.
- Make sure your other devices or media are working properly.
- If you believe the unit is not working properly, check the following table for your problem and solution.

Problem	Solution	Please see:
Power does not turn on.	Make sure the unit is connected to a power outlet.	Setup
CD cannot be inserted into CD slot .	Make sure the unit is connected to a power outlet and that it is powered on. Press the Eject Button to make sure a CD is not already in the CD slot .	Setup
No Disc appears even when a CD is inserted.	Press the Eject Button to eject the CD and insert it again.	
A specific section of the CD does not play properly.		
Playback does not start even after pressing the Play button.	Clean the CD with a dry cloth or commercial CD cleaner. Insert a different CD.	Other Information > CDs
The unit does not produce any sound, or the sound is distorted.	Make sure all cable, device, or media connections are secure and correct. Make sure none of the cables are damaged. Make sure the settings on your amplifier, mixer, etc. are correct.	Setup
The unit cannot play a CD-R.	Make sure the CD-R has been finalized properly. Make sure the CD-R is of good quality. Clean the CD with a dry cloth or commercial CD cleaner. Make sure the CD-R contains MP3 files. The unit cannot play other files on CD-R.	Other Information > CDs
The CD will not eject.	Press and hold the Eject Button while turning on the unit.	

Problem	Solution	Please see:
<p>No Device appears even when a USB device is inserted.</p>	<p>Disconnect and reconnect the USB device to make sure it is securely inserted.</p> <p>Make sure the USB device is of a mass storage class or compatible with MTP.</p> <p>Make sure the USB device is formatted using a FAT16 or FAT32 file system.</p> <p>Do not use a USB hub or USB extension cable.</p> <p>The unit does not supply power to USB devices. If your USB device requires a power source, connect it to one.</p> <p>Not all USB devices are guaranteed to work; some may not be recognized.</p>	<p>Other Information > USB Devices</p>
<p>Files on a USB device do not appear.</p>	<p>Make sure the files are of a supported file format (MP3). Files that are not supported by this unit will not appear.</p> <p>If your USB device is partitioned, make sure the files are in the first partition. The unit will not show other partitions.</p>	<p>Other Information > USB Devices</p>
<p>Files on a USB device cannot play.</p>	<p>Make sure the files are of a supported file format. Files that are not supported by this unit will not appear.</p> <p>Make sure the files are not copyright-protected. The unit cannot play copyright-protected files.</p>	<p>Other Information > USB Devices</p>
<p>File names do not appear properly.</p>	<p>Make sure the files are using only supported characters. Characters that are not supported will be replaced with a “.”</p>	<p>Other Information > USB Devices</p>

Appendix

Technical Specifications

Digital Audio System	
System	Media player with tuner
Compatible Media	CD, USB device (mass storage class)
Supported Device Formats, File Systems	CD: CD-DA, CD-ROM (ISO9660) USB: FAT16, FAT32
Supported File Formats	MP3: (in CD or USB Mode) File extension: .mp3 Format: MPEG1 Audio Layer 3 Sample rate: 44.1 kHz Bit rate: 32 kbps to 320 kbps and VBR
Number of Channels	2 (stereo), 1 (mono)
Audio Frequency Range	20 Hz – 20 kHz (± 1.0 dB)
Signal-to-Noise Ratio	> 95 dB (A-weighted)
Total Harmonic Distortion	< 0.01%
Dynamic Range	> 85 dB
Channel Separation	> 80 dB
Outputs	
Analog Out L/R (unbalanced)	Type: RCA terminal Load impedance: > 10 k Ω Output level: 2 V _{rms} / at 10 k Ω load
Analog Out L/R (balanced)	Type: XLR Load impedance: > 10 k Ω Output level: +4 dBu
Inputs	
Aux In	Type: 1/8" (3.5mm) TRS terminal Input impedance: > 10 k Ω Maximum input level: 1 V _{rms} Maximum output level: 3 V _{rms}

Other / General	
File/Folder Limits	Storage capacity: up to 2 TB File size: up to 2 GB File name length: up to 255 characters Number of files: up to 999 (for 1 folder) Folder name length: up to 255 characters
Power	USA and Canada: 120 V AC, 60 Hz Europe and Asia Pacific Region: 230 V AC, 50/60 Hz Japan: 100 V AC, 50/60 Hz Power consumption: 30 W
Environmental Conditions	Operating temperature: 41 – 95 °F (5 – 35 °C) Operating humidity: 25 – 85%, no condensation
Dimensions (width x depth x height)	19.00" x 13.66" x 1.73" / 483 x 347 x 44 mm (with rack ears) 17.09" x 13.66" x 1.73" / 434 x 347 x 44 mm (without rack ears)
Weight	7.94 lbs. / 3.6 kg

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