



OWNER'S MANUAL

DMS-300A

Streaming Integrated Amplifier

NOTE: Before installing your new component, please read this manual carefully as it will inform you of the product specifications, proper installation and correct operating procedures for your unit. Also included in this manual are guidelines on how to service and care for your new Cary Audio Design product.

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IMPORTANT SAFETY INSTRUCTIONS

WARNING: The triangle with the lightning flash symbol displayed on the unit advises the user of dangerous un-insulated voltage inside the product's enclosure.

CAUTION: To reduce the risk of electric shock, do not remove the cover. There are no user-serviceable parts inside; it is recommended that only qualified personnel service this component.



ALERT: The triangle with the exclamation point symbol on the component suggests that the owner refer to important operating and maintenance instructions in the owner's manual.

1. **OWNER'S MANUAL:** Before powering up the equipment, read all safety and operating instructions and follow them as instructed. Retain the safety and operating instructions for future reference.
2. **ATTACHMENTS:** Use only those attachments recommended by the unit manufacturer, as others may cause hazards.
3. **ACCESSORIES:** Do not place the unit on an unstable cart, stand, tripod, bracket, or table. The unit may fall, causing injury to a person or damage to the unit. Mount the unit according to the manufacturer's instructions with the suggested mounting accessory.
4. **WALL OR CEILING MOUNTING:** Mount the unit to a wall or ceiling only in the manner recommended by the manufacturer.
5. **WATER AND MOISTURE:** Do not use the unit near water (for example, near a swimming pool, bath tub, wash bowl, kitchen sink, or laundry tub) or in a damp environment (like a basement or outside in the rain).
6. **OBJECT AND LIQUID ENTRY:** Do not push objects of any kind into the unit through openings as they could touch dangerous voltage points and short-out parts, possibly resulting in a fire or electric shock. Avoid spilling liquid of any kind on the unit. If water or any metal object (such as a paper clip, coin, or staple) accidentally falls inside the unit, disconnect it from the AC power source immediately and contact Cary Audio Design for further instructions.
7. **HEAT:** Position the unit away from heat sources such as radiators, heat registers, stoves, or other units (including amplifiers) that produce heat.
8. **VENTILATION:** Slots and openings in the cabinet create ventilation to protect the component from overheating. These openings on the top and bottom panels must remain unobstructed. Allow at least 6 inches (16cm) of clearance above the unit and an opening behind the unit for airflow. Do not place the unit on a bed, sofa, rug, built-in bookcase, or rack without adequate ventilation.
9. **GROUNDING OR POLARIZATION:** As a safety feature, the unit may be equipped with a polarized alternating current line plug in which one blade is wider than the other. This plug will fit into the power outlet only one way. If you cannot insert the plug fully into the outlet, try reversing the plug. If the plug still will not fit, contact a licensed electrician to update your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
10. **POWER SOURCES:** Operate the unit only from the power source indicated on the marking label. If you are unsure of the type of power supplied to your home, consult your unit dealer or local power company.
11. **POWER CORD PROTECTION:** Arrange power supply cords so that they do not suffer from foot traffic or pinching by items placed on or against them. Pay close attention to cords where plug enter the AC outlet and where they exit from the unit.
12. **LIGHTNING:** For added protection during a lightning storm or when the component is idle for long periods of time, unplug the unit from the wall outlet and disconnect the antenna or cable system. This will help protect the unit from lightning and power line surge damage.
13. **POWER LINES:** Do not locate an outside antenna system in the vicinity of overhead power lines or other electric light or power circuits. When installing an outside antenna system, take extreme care to avoid touching the power lines or circuits; contact with them could be fatal.
14. **OVERLOADING:** Do not overload wall outlets, extension cords, or integral convenience receptacles as this increases the risk of fire or electric shock.
15. **REPLACEMENT PARTS:** When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or those having the same characteristics as the original parts. Unauthorized substitutions may result in fire, electric shock or other hazards.
16. **SAFETY CHECK:** Upon completion of any service or repairs to the unit, ask the service technician to perform safety checks to ensure the unit is in proper operating condition.

IMPORTANT SAFETY INSTRUCTIONS

17. IMPORTANT SAFETY NOTE:

- Before connecting a new product such as the Cinema 12 to your audio or home theater system, turn off all other equipment (preferably unplugging them from the AC power source). Many audio components feature automatic turn-on circuits that may activate during an installation, potentially causing damage to electronic components and/or speakers. This type of damage is not covered by product warranties, and Cary Audio specifically disclaims responsibility for any such damage.
- **Power Cord:** The removable power cord provided with your unit was specifically designed for use with this product, but other AC cords may be used. Consult your dealer for advice on AC power cords and high quality wire in your system.
- **AC Fuse:** The fuse is located inside the chassis and is not user serviceable. If the unit does not power up, contact an authorized service representative
- **Wiring:** Cables running inside walls should have the appropriate markings to indicate compliance and listing by the UL, CSA or other standards required by the UL, CSA, NEC or your local building code. Questions about cables inside of walls should be referred to a qualified custom installer, a licensed electrician, or low-voltage contractor.



18. **RECORDING COPYRIGHT:** Recording of copyrighted material for other than personal use is illegal without permission of the copyright holder.

19. **NOTE TO CATV SYSTEM INSTALLER:** This reminder is provided to call the CATV system installer's attention to article 820-40 of the NEC, ANSI/NFPA 70, which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.

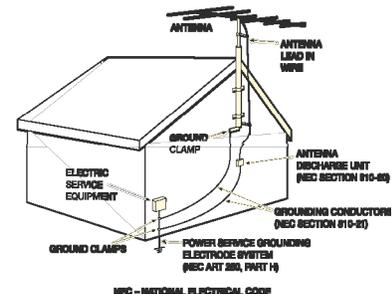
20. FCC INFORMATION FOR USER:

- **CAUTION:** Any changes or modifications not expressly approved by Cary Audio Design could void the user's authority to operate the equipment.
- **NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules.
- These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates and can radiate radio frequency energy, and if not installed and used in accordance with the instructions it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
 - Reorient or relocate the receiving antenna.
 - Increase the separation between the equipment and receiver.
 - Connect the equipment into an outlet on a circuit different from where the receiver is connected.



21. OUTDOOR ANTENNA INSTALLATION/SAFE ANTENNA AND CABLE CONNECTION:

- If an outside antenna or cable system is connected to the equipment, be sure the antenna or cable system is grounded in order to provide protection against built-up static charges and voltage surges. Article 810 of the National Electrical Code, ANSI/NFPA 70 (in Canada, Part 1 of the Canadian Electrical Code) provides information regarding proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes and requirements for the grounding electrode.
- Outside antenna system should be located well away from power lines, electric light or power circuits and where it will never come into contact with these power sources if it should happen to fall. When installing an outside antenna, extreme care should be taken to avoid touching power lines, circuits or other power sources as this could be fatal. Because of the hazards involved, antenna installation should be left to a professional.



WELCOME

THANK YOU

Congratulations on becoming a Cary Audio owner!

Cary Audio would like to thank you for purchasing our products.

Since its founding in 1989, Cary Audio has stayed at the forefront of home entertainment equipment by stubbornly adhering to the principles of quality and musicality upon which it was founded. It's not enough just to be able to build great-sounding gear, but it needs to be well-made, reliable, and maintain its performance and value for many years. Cary Audio has certain criteria that have guided us since we began and are still our primary focus.

We firmly believe in high-performance products that offer incredible value for the money, backed by superior engineering and design, and supported by exceptional customer service. Whether a headphone amplifier or a world-class surround sound processor, Cary Audio uses the highest quality components available within the audio circuit, resulting in extraordinary sound quality. This is a well-known hallmark of all Cary Audio products.

For over a quarter century of providing the best in high-performance music systems, Cary Audio remains committed to our goals of building the very best products, at real-world prices, and supporting them with world-class service. Let our passion for the very finest sound and picture quality help you better enjoy your music and movies! Thank you for your continued support!

The Cary Audio Team

ABOUT THE DMS-300A

ABOUT THE DMS-300A

The DMS-300A brings the best of both worlds together—streaming technology and high-performance amplification, all in one sleek, powerful package. Featuring a discrete Class AB amplifier rated at 75 watts per channel, the DMS-300A delivers the rich, dynamic sound Cary Audio is known for, with the modern convenience of today's top streaming platforms.

Stream your favorite music with ease via Qobuz Connect, TIDAL Connect, Spotify Connect, AirPlay, and Bluetooth, or take full control of your digital library with Roon Ready and UPnP/DLNA compatibility. Whether you're connecting via Wi-Fi or Ethernet, the DMS-300A ensures reliable, high-resolution playback every time.

With a full suite of digital and analog inputs and outputs, the DMS-300A integrates seamlessly into any system, whether you're building from scratch or upgrading your existing setup.

USEFUL TERMS

Network Connection – A connection to a home network router (needed for *Network Music*) which in turn is typically connected to the Internet. Although an Internet connection is not necessary for a home network or *Network Music*, it is needed for *Internet Music*. A network connection can be either wired, or wireless.

Client – A component that finds music stored on network devices and retrieves it for playback over its own music playing software.

Renderer – A component that lets other devices such as computers or Apps push music to the component for playback via the media player of the computer or App.

Wired Connection (Ethernet) – A connection to the router with an Ethernet (Cat5e, etc.) cable.

Wireless Connection (Wi-Fi) – A connection to the router via a components built-in Wi-Fi. Router must also be Wi-Fi capable.

Network Music – A broad term that refers to music originating from a computer or NAS drive that is connected to a home network for playback over a *Digital Music Streamer/Network Audio Player*.

Digital Music Streamer/Network Audio Player – An audio component like The DMS-300A that connects to a home network that can access *Network Music* for playback.

NAS Drive – (Network Attached Storage) An external hard drive that connects directly to a network router (wired or wirelessly), unlike a USB hard drive that connects to a computer or audio component.

ABOUT THE DMS-300A

Internet Music – Music from an Internet music service, such as Spotify Connect, Tidal Connect, Internet Radio, etc. Requires a router connected to the Internet.

Server – for the purposes of this manual, a server is a software application installed on a computer or NAS drive that monitors a music library and “serves” files to a **Digital Music Streamer/Network Audio Player**. Server software can be lite background “server only” applications (i.e.; Twonky), or part of a larger suite of software within a Media Player application (i.e.; JRiver).

Computer-less –Playback that doesn’t require a computer or network setup. For example; directly connecting a USB flash/HDD drive, or SD Card to The DMS-300A for playback.

Local Music – This includes *Computer-less* USB HDD, flash/thumb drives, SD Cards, or other components (CD players, Cable Boxes, etc.) connected directly to The DMS-300A for playback.

App or Control App – A free iOS or Android App that can take the place of the hand held IR remote to control all functions of The DMS-300A from a comfortable position away from the unit itself.

SMB/PC Share – A standard computer protocol for sharing files across computers & networks.

UPnP/DLNA – A more specialized protocol to serve files to computers across network connections.

INSTALLATION

UNPACKING

This section describes the proper unpacking and installation procedures.

Unpacking

All Cary Audio shipping cartons have been specially designed to protect their contents, and special care has been taken to prevent damage under normal shipping conditions. Mishandling should be evident upon inspection of the shipping container. If shipping damage is found after visual inspection, take care not to destroy the evidence. If necessary, document the damage with photographs and contact the transport carrier immediately.

Carefully remove your new component from its packing carton and examine it closely for signs of shipping damage. We strongly recommend saving all original packing cartons to protect your component from damage should you wish to store it or ship it at a later date.

Power Requirements

The DMS-300A is designed to operate from AC main current. The design AC voltage is either 110V-120V or 220V-240V AC at 50-60 Hz.

In the Box

When unpacking the DMS-300A, make sure the following accessories are included. You should find the following items within the box:

- Remote Control
- Power Cable
- Three Screw on Adjustable Angle Antennas

WARRANTY CARD

IN THE USA: If you are the original purchaser of a new unit purchased from an authorized Cary Audio dealer or from CaryDirect.com, please fill out the enclosed warranty registration card and return it to Cary Audio within 15 days of your purchase. Cary Audio also suggests that you keep your original packing cartons in case you ever need to ship the unit. Warranty restrictions apply. Consult the warranty section at the end of this manual for details. Please be sure to keep a copy of the original sales receipt from your direct purchase from Cary Audio or your authorized Cary Audio dealer to validate the warranty if ever needed. The warranty is for the original purchaser only and does not transfer to any subsequent owner.

OUTSIDE THE USA: Your local authorized Cary Audio distributor will make its own warranty policy for your country. Please check with them for the terms of warranty for your new amplifier.

PLACEMENT

In general, the location of your new DMS-300A is not critical. Certain precautions must be taken to ensure optimum performance. Avoid extremely hot locations such as near radiators or other heating units. Keep the top of the DMS-300A clear of books, paper, or other equipment to protect against overheating.

DISCLAIMER

The operation of the **DMS-300A** assumes that all users possess at least a moderate understanding of:

- Computers and file-sharing principles
- Computer networks and related peripherals (routers, Ethernet, Wi-Fi)
- USB hard drives, flash drives, and SD cards
- NAS drives and computer operating systems
- Third-party software, such as media or music servers and media players
- Digital music downloading and storage
- Music library and file management (including tagging and embedding artwork)

Cary Audio makes no warranties regarding these items and does not provide support for them beyond what is described in this manual.

All operational instructions in this manual refer to the **DMS-300A**'s handheld IR remote control unless otherwise noted. For instructions on operating the **DMS-300A** via iOS or Android apps, please visit the **DMS-300A** product page on the Cary Audio website and locate the "App Quick Guide" on the right side of the page or under the **Downloads** tab.

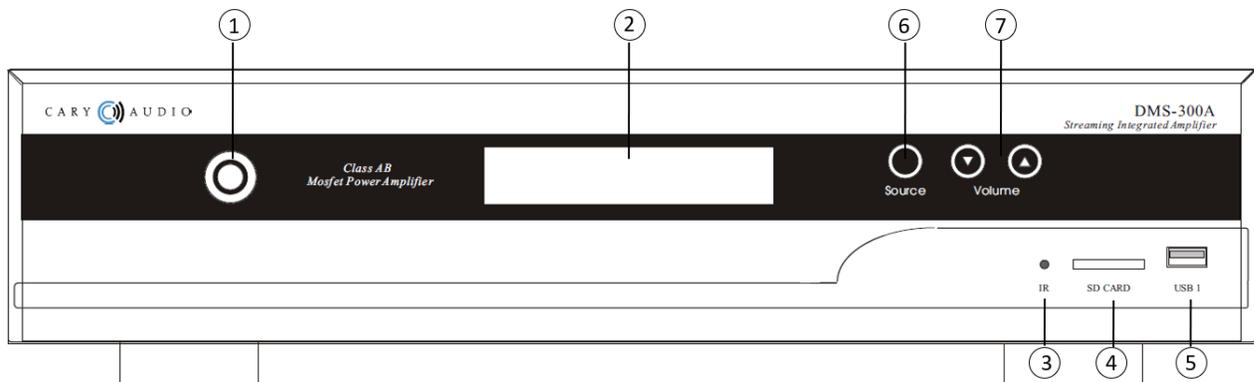
CONTROLS AND DISPLAYS

AUTO-SENSING FRONT PANEL TOUCH

The DMS-300A has a built-in auto-sensing sensor that detects when your hand is close to the front panel when attempting to access a feature. This illuminates the function keys of the front panel (except the center LCD display, which stays on continuously*). The time the function keys stay illuminated can be set to automatically turn off after 10, 20, 30, 45, or 60 seconds, or stay on continuously while powered on by selecting "Always On" in The DMS-300A' setup menu. The factory default is set to turn off after 60 seconds.

*The entire front panel can be turned off, including the center LCD display, with the "BRIGHT" function on the remote. This has a low, medium, high, and off setting.

FRONT PANEL



1. POWER

To power on, press and hold for a few seconds until you hear a click and the front panel illuminates. Repeat to turn off. (If front panel display is set to turn off after "X" seconds, the POWER key illuminates once your finger gets close to it.)

2. LCD FRONT PANEL DISPLAY

The center multi-color LCD panel displays all playback information, and user settings in a simple easy to use user interface. See Now Playing section for more information on various display modes.

3. IR REMOTE SENSOR

Line of sight IR sensor for handheld IR remote control.

4. SD CARD SLOT

For playback of music files from SD Cards up to 32 GB for SD and up to 2 TB for SDXC. Also used for firmware upgrading.

5. USB TYPE-A INPUT

For playback of music files from USB hard disc drives (HDD) and USB flash/thumb drives up to 3 TB. ***NOT FOR CONNECTING TO A COMPUTER.***

6. SOURCE SELECTOR

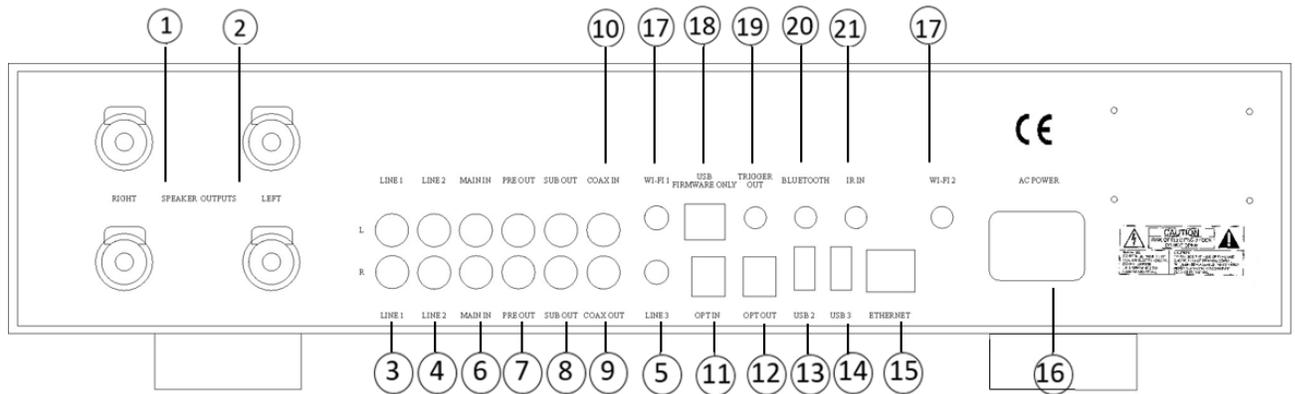
Press to cycle through the available input sources.

7. VOLUME CONTROL

Press to control the volume up or down.

CONTROLS AND DISPLAYS

REAR PANEL



1. RIGHT CHANNEL SPEAKER OUTPUT

Use these jacks for connecting to your RIGHT speakers positive (+) and negative (-) jacks.

2. LEFT CHANNEL SPEAKER OUTPUT

Use these jacks for connecting to your LEFT speakers positive (+) and negative (-) jacks.

3. LINE 1 ANALOG INPUT JACKS (STEREO RCA)

Use this jack for connecting to a stereo analog source.

4. LINE 2 ANALOG INPUT JACKS (STEREO RCA)

Use this jack for connecting to a stereo analog source.

5. LINE 3 ANALOG INPUT JACKS (STEREO 3.5mm jack)

Use this jack for connecting to a stereo analog source that uses a 3.5mm mini jack output, such as phones and tablets, etc.

6. MAIN-IN INPUT

For connecting to the audio outputs of a processing source, such as an analog based equalizer, room enhancer, etc. This creates a "loop" when used with the pre-outs. Refer to the MAIN-IN function of this manual for further explanation.

7. PRE-OUT JACKS

For connecting to an external amplifier or distributed audio system. Refer to the PRE-OUT function of this manual for further explanation.

8. SUBWOOFER OUTPUT

For connecting to an active /powered subwoofer. Refer to the SUBWOOFER OUTPUT function of this manual for further explanation.

9. DIGITAL OUTPUT JACK (COAXIAL)

16 – 24 Bit, 44.1 kHz – 192 kHz digital data output. MQA nor DSD files can be outputted.

10. DIGITAL INPUT JACK (COAXIAL)

16 – 24 Bit, 44.1 kHz - 192 kHz digital data Input. MQA nor DSD files can be inputted.

CONTROLS AND DISPLAYS

11. DIGITAL INPUT JACK (OPTICAL)

16 – 24 Bit, 44.1 kHz - 192 kHz digital data Input. MQA nor DSD files can be inputted.

12. DIGITAL OUTPUT JACK (OPTICAL)

16 – 24 Bit, 44.1 kHz - 192 kHz digital data Input. MQA nor DSD files can be outputted.

13. USB 2 INPUT (TYPE-A)

For playback of music files from USB hard disc drives (HDD) and USB flash/thumb drives up to 3 TB. *NOT FOR CONNECTING TO A COMPUTER.*

14. USB 3 INPUT (TYPE-A)

For playback of music files from USB hard disc drives (HDD) and USB flash/thumb drives up to 3 TB. *NOT FOR CONNECTING TO A COMPUTER.*

15. ETHERNET RJ45 JACK

Connect to a network router for network music streaming of networked computer(s) or NAS drive(s) via a wired Ethernet connection. Also used for network control via apps or control system.

16. POWER INPUT (AC IN)

Connect to AC mains using the included power supply cord.

17. Wi-Fi ANTENNAS

For connecting to a Wi-Fi router for network music streaming of networked computer(s) or NAS drive(s) via a wireless Wi-Fi connection. Also used for network control via apps or control system.

18. USB-B (FIRMWARE)

For internal service use only. *DO NOT CONNECT A COMPUTER TO THIS USB-B INPUT.* Doing so may damage the unit.

19. DC TRIGGER OUTPUT

Connect to device that has DC + 12V input for remote turn-on of external devices; such as an external amplifier.

20. BLUETOOTH ANTENNA

44.1 kHz Qualcomm aptX® wireless digital audio transmit and receive port.

21. IR INPUT

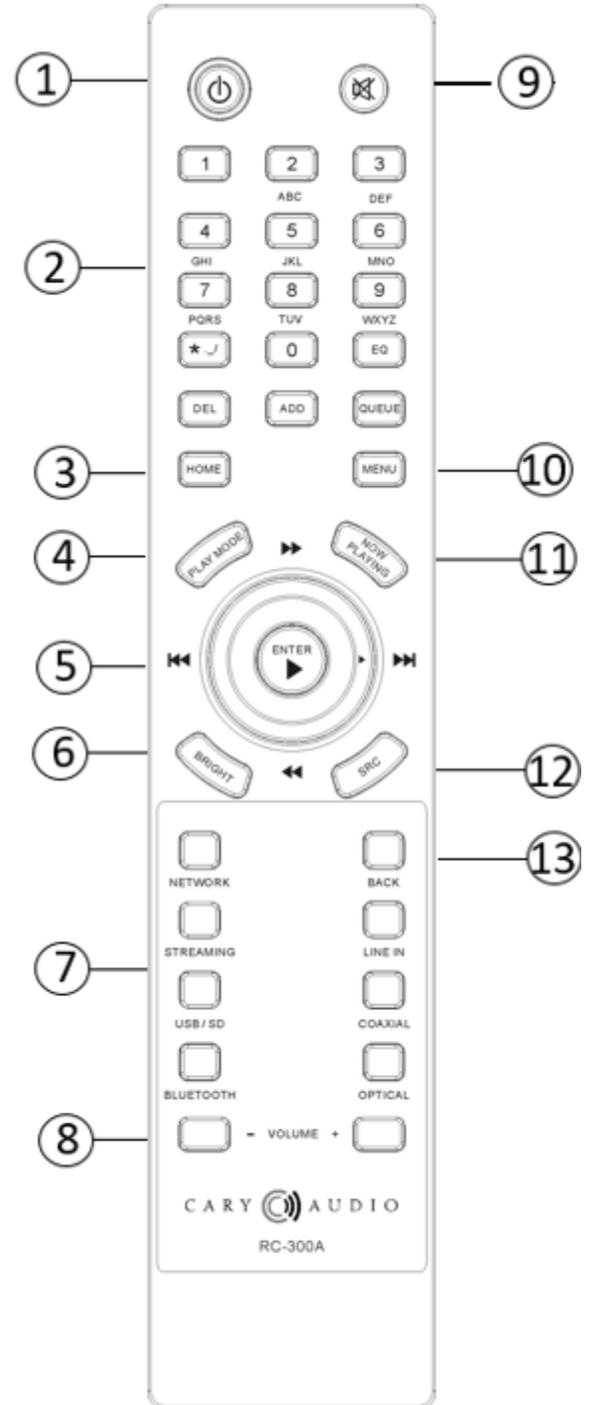
Connection of external IR sensors to control The DMS-300A if unit is out of line of sight.

REMOTE CONTROL OPERATION

IR REMOTE CONTROL

This section explains how to use the remote control to set up and operate the DMS-300A. Refer to other corresponding sections of this manual for further explanation of these features.

1. **POWER:** Use to turn the power on and off.
2. **ALPHANUMERIC KEYS:** for entering network settings, such as Wi-Fi security key.
3. **HOME:** Press to return to the home screen of the source.
4. **PLAY MODE:** Press to switch between Play, Shuffle, Repeat, and Repeat All.
5. **ENTER/FF/SKIP:** Use the corresponding keys to Pause Play, Skip, and Pause during music playback.
6. **BRIGHT:** Use to select the DMS-300A' displays various brightness levels of low, medium, high, and off.
7. **INPUT SOURCE:** Use this section to select the desired input source, or use Cary Audio Streamer 2.0 app.
8. **VOLUME +/-:** Decrease or increase volume.
9. **MUTE:** Use to mute sound. Press again to unmute sound.
10. **MENU:** Press to go to the Settings Menu of The DMS-300A.
11. **NOW PLAYING:** Press to toggle between the various now playing screens of current source.
12. **SRC:** (Sample Rate Converter). Press to select one of the many PCM & DSD TruBit™ upsample-rates. This can also convert any playing PCM signal to a DSD (Direct Stream Digital) signal. (This function does not work with MQA files as MQA files do their own rendering, up to 16x).
13. **BACK:** Press the Back button to go back to the previous selection.



FRONT PANEL DISPLAY

OPERATING THE DMS-300A

The DMS-300A is designed to be very simple to operate. All functions can be done from the Cary Streamer 2.0 app available for free download on the iOS App store or Google Play Store. Each app is highly intuitive and easy to operate. Other basic functions may be done using the IR remote control. However, once a selection is made via the IR remote, The DMS-300A may refer you back to the Cary or Music Services' own app for operation.

Simply connect an ethernet cable from your router to the DMS and plug in to AC power. If you can't use ethernet, you can connect the DMS to your router via the built-in Wi-Fi. Please ONLY connect the DMS via one method. Do not connect via Wi-Fi if using ethernet and vice versa. If you use Wi-Fi, please follow the Wi-Fi connection instructions elsewhere in this manual.

Once the ethernet is connected (or Wi-Fi successfully setup) and AC power is plugged in, simply turn on the DMS-300A. Once booted up, just select your input from the app or IR remote control. When Streaming from Qobuz, TIDAL, or Spotify, you don't even have to use the Cary app. Just turn on the DMS-300A, open either of those app, make a music selection and select the DMS-300A by tapping on the Connected "Devices" icon in the now play screen of those app. Please refer to the Streaming section of this manual.

If you select Streaming Input form the IR remote, the DMS-300A will confirm your selection for 5 seconds then ask you to use the preferred music services (TIDAL, Qobuz, Spotify) own app to begin playback and connect to the DMS.



If you select Network, the DMS-300A will confirm your selection for 5 seconds then ask you to use the Cary app for navigation and music playback.



If you select USB/SD Card, the DMS-300A will confirm your selection for 5 seconds then ask you to use the Cary app for navigation and music playback.



FRONT PANEL DISPLAY

NOW PLAYING SCREENS

Pressing the "Now Playing" button on the remote will toggle between different display modes depending on the source being played. Each line has a maximum of 20 characters. If either line exceeds 20 characters, the information will scroll across the screen.

DISPLAY SCREENS FOR NETWORK, USB, SD CARD AND STREAMING SOURCES

MODE 1

Selected Source

Volume

SD Card

Vol 32

S:44.1 kHz

O:DSD256

Native Input

Selected Upsample
rate

MODE 2

Artist Name

Pink Floyd

Comfortably Numb

Track Name

MODE 3

Selected Source

Volume

SD Card

Vol 32

Pink Floyd/The Wall/Comfortably Numb

Artist Name, Album Name, Track Name
Scrolling across screen

FRONT PANEL DISPLAY

DISPLAY SCREEN FOR COAXIAL, OPTICAL AND BLUETOOTH

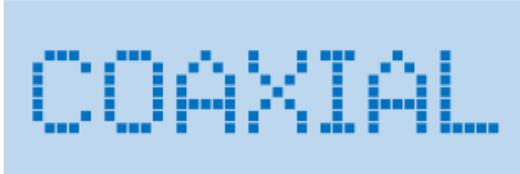
MODE 1

Selected Source	Volume
Coaxial	Vol 32
S: 88.2kHz	0:768kHz

Native Inputs Selected Upsample rate

MODE 2

Selected Source



DISPLAY SCREEN FOR LINE 1, 2 AND 3 SOURCES

See "ANALOG LINE INPUT OPERATION" below to learn more about how analog signals are processed.

MODE 1

Selected Source	Volume
Line 2	Vol 32
S: 44.1kHz	0:DSD256

Native Inputs Selected Upsample rate

MODE 2

Selected Source



VOLUME CONTROL

VOLUME DISPLAY

The volume control is located on the handheld remote. The DMS-300A will display a pop-up as shown below when adjusting volume, even if the front panel display brightness is set to off.



SETTINGS MENU

SETTINGS MENU OVERVIEW

Within the **Settings Menu** you can adjust, control, and customize The DMS-300A operation and settings as follows:

Volume Setup: Independent or Master. It is recommended to set and leave on Master.

IR Control: This allows you to set the IR control to Front, Rear, or Both. It is recommended to set and leave on Front, unless you have a remote eye plugged into the rear.

WARNING: Do not select Rear if you do not have a rear mounted IR sensor. Otherwise, you could be locked out of all IR command control. If this happens and you have previously connected an iOS or Android app to The DMS-300A, you can use the app to change this setting. If not, you must reset The DMS-300A.

Roon Ready: Enable is default. If not using Roon, you can select Disable.

Network: Shows Network Settings

Speaker Out: On is default. If you use a separate amplifier and bypassing the internal amplifier you can select Off.

Power Trigger: Can set to On if using the output trigger to turn on another device when turning on the DMS-300A.

Main In: When Off the preouts are active to use for another amplifier or powered speakers. When ON, it is a loop for using with a processor such as an Equalizer. If not using a processor such as an EQ, leave off. Otherwise, you will have no sound.

MQA Decoder Type: Best to set and leave on Full Decoder. Core and Authentication Decoder will diminish output quality of MQA files.

Sleep Time: This is a sleep timer. Select a time you wish the DMS-300A to shut off automatically.

Firmware: This will show the current firmware version of the DMS-300A as well as the App version and serial number of your unit.

Reset: This is a factory reset. Always do a factory reset after you have done a firmware update. Please know that when doing a factory reset it will erase all settings.

FILE SHARING CONFIGURATION

CONFIGURING COMPUTER(S) FOR SHARING FILES

THE DMS-300A can also can play music from portable devices in a variety of ways, these include **Qualcomm aptX® Bluetooth, Airplay,** and **Phoneshare**. These sections below will discuss each of these options.

Prior to making a network connection to The DMS-300A (as described below), it's easy to share all your music stored across all your network connected computers with The DMS-300A. However, you must make sure your network computers are setup for **file sharing**, and **permission** settings are set for **everyone**. This manual goes over some basics of computer settings, but it is the responsibility of the user to know how to setup computer networks and file sharing permissions. Cary Audio does not offer personal IT support beyond what is covered in this manual.

Provided file sharing is set up correctly, there are two methods for The DMS-300A to find and playback music stored across your network computers.

1. **PC Share**, otherwise known as **Service Message Block (SMB)** which is a standard built-in protocol for PC's and MAC's. This is automatic once you setup file sharing. Any computer The DMS-300A finds with file sharing turned on will be displayed with a "hand sharing a folder" icon in front of the computer name.
2. **Servers** using **DLNA or UPnP** protocols to share files is the second method but is a bit more advanced. It requires installed software on your computer called a "Server". The server "serves" music to The DMS-300A and typically has more advanced user settings. However, the payoff for using a server can be advantageous as it can allow for all sorts of custom settings. Any computer The DMS-300A finds using a Server will have a "Computer" icon in front of the computer name.

Note: iTunes is not a server. Windows Media Player does include a sort of server (Windows Media Server). Using the Windows Media severely limits support for various file types and resolutions. It is not recommended but will show up as an available server.

We suggest using dedicated media server software, such as JRiver, Foobar2000, Media Monkey, etc., for the advanced user, and PC Share/PC SHARE/SMB for the less advanced user. PC SHARE/SMB uses Service Message Block (PC SHARE/SMB) protocol to communicate with a PC or MAC. This requires very little setup and no third party software.

Even though PC SHARE/SMB is suggested for the less advanced user it is sometimes preferred due to easy setup and support for any file type or resolution. DLNA/UPnP vs. PC Share/SMB each have their advantages. It's best to experiment with both to determine your preference. See more on these differences below.

SETTING UP WIRED ETHERNET CONNECTION

SET UP A WIRED ETHERNET CONNECTION

The first step to enjoying the DMS-300A's impressive features is connecting it to your home network. This step assumes you have an **active home network and router** installed in your home.

1. *For Ethernet (wired) connection*, place the DMS-300A within a cable run to your router or to an Ethernet port that is wired back to the router.
2. *Connect an **Ethernet cable*** to the back of the DMS-300A and plug the other end into your router, or Ethernet Port. The DMS-300A should automatically connect to the network. If not, follow these steps.
 - a. *Press the **MENU** button on the IR remote.*
 - b. *Scroll down to "**Network**" and press **Enter**.*



- c. The following screen will display. Press the right , and left Keys to select Ethernet and press Enter. Once selected a ✓ will appear next to the selection. Press the right , and left Keys once again to select DHCP (recommended) or Static, and press Enter.



NOTE: Static IP addressing is typically only for advanced users to manually enter a user specific IP address that is constant, hence the term static, meaning it does not change.

- d. Follow the preceding on-screen instructions to connect to your network. When complete, the display should say "Connected".

SETTING UP WIRELESS WI-FI CONNECTION

USING REMOTE CONTROL ALPHANUMERIC

These are used to set up Wi-Fi from the IR remote. Each time you press a key, say the #5 key, it will toggle between 5, j, k, l, J, K, L. Simply stop on the number or letter to select it and the cursor will advance to the next space after a few seconds. To go back, press the "<" key on the remote. When you have completed entering your information, press the "Enter" key on the remote.

Note: For spaces, press the "0" key for a blank box. For special characters, press the *./ key.



Enter Security Key

K3J2_

SET UP A WIRELESS WI-FI CONNECTION WITH IR REMOTE CONTROL

This step assumes you have an **active wireless home network and router** installed in your home.

NOTE: The quality and stability of the audio signal depends on the bandwidth and range of your Wi-Fi router. This is especially true for exceptionally high resolution files, such as DSD files or PCM files greater than 192kHz. When possible, a wired (Ethernet) connection is preferred.

1. For *WIFI (wireless) connection*, place The DMS-300A within WIFI range of your router.
2. Make sure the **both** WIFI antennas are screwed into place on the rear of The DMS-300A.
 - a. Press the **MENU** button *on the IR remote*.
 - b. Scroll down to "**Network**" and press **Enter**.

IR Controls

>Network

- c. The following screen will display. Press the right , and left Keys to select WIFI and press Enter. Once selected a ✓ will appear next to the selection. Press the right , and left Keys once again to select DHCP (recommended) or Static, and press Enter.

Ethernet WIFI ✓

DHCP ✓ Static

NOTE: Static IP addressing is typically only for advanced users to manually enter a user specific IP address that is constant, hence the term static, meaning it does not change.

- d. A message will appear asking if you want to scan WIFI networks. To connect via WIFI, you must Press the right , to YES and press ENTER.

SETTING UP WIRELESS WI-FI CONNECTION



Scan Wi-Fi Networks?
NO > YES

- e. This will display a list of available WIFI networks. Using the up , down , keys on the IR remote to find your home WIFI network name and press ENTER.
- f. Enter your security key (if needed) using the alphanumeric keys on the IR remote. REMEMBER, security keys/code are case sensitive. When you have finished entering all letters and numbers, press ENTER. When complete, the display should say "Connected".

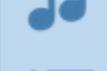


Enter Security Key:
Kf943kdUU639_

USER INTERFACE ICONS

GRAPHIC ICON KEY (FOR NETWORK OR USB/SD INPUTS)

ICON KEY: As noted some icons are exclusive to the type of input source you are listening to while others may be universal.

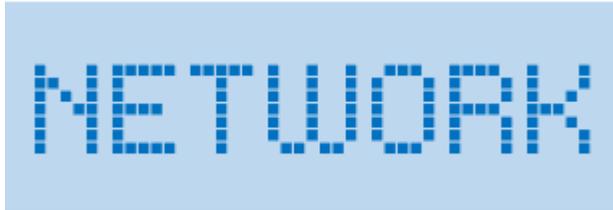
	PC Share/SMB Computer (not using a server)
	UPnP/DLNA Computer (using a server. Only displays Folders)
	Folder View (UPnP/DLNA only shows Folder and Track icons)
	Artist (Shows for PC Share/SMB, USB, SD & Internet inputs)
	Album (Shows for PC Share/SMB, USB, SD & Internet inputs)
	Track (Shows for all inputs)
	Playlist (Shows for all inputs)
	Genre (Shows for PC Share/SMB, USB, SD & Internet inputs)
	Composer (Shows for PC Share/SMB, USB, and SD inputs)

NETWORK AUDIO OPERATIONS

NETWORK AUDIO PLAYBACK

Network streaming allows the playback of digital music files stored on computers or NAS Drives connected to your network. The advantage of network streaming is you don't have to have the computer(s) or NAS Drive(s) located anywhere near The DMS-300A. However, the computer(s) or NAS Drives must remain powered on for The DMS-300A or any network audio player to access them.

1. Press the **NETWORK/INTERNET** button on the IR remote until NETWORK is displayed.



2. After a few seconds, The DMS-300A will display a list of all network connected computers, both PC SHARE/SMB and UPnP/DLNA.
3. Press the  key of the remote to move the > to your choice of computer and press Enter. Please know the list of connected computers can be more than the two lines the display is limited to. Just keep scrolling down to find the desired source and Press Enter.



This icon represents a PC SHARE/SMB computer.



This icon represents an UPnP/DLNA music server running on a specific computer.

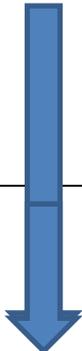


NOTE: The DMS-300A is required to scan all PC SHARE/SMB Computers to index the files. This is only required the first time that PC SHARE/SMB computer is selected. This can take quite a while depending on the size of the drive. UPnP/DLNA (or server based) computers do NOT require The DMS-300A to scan and index them.

4. Pressing Enter will display a view of the computer(s) as follows. Once again, keep in mind more choices may be available by scrolling the > key down. Navigate through these layers as described in the above Navigation Basics Section.

NOTE: The Folder View can vary depending on how a UPnP/DLNA music server or PC SHARE/SMB computer is setup. For example, additional folder choices like GENRE, COMPOSER, PLAYLISTS, QUEUE, etc., are automatic with a PC SHARE/SMB computer as opposed to how a UPnP/DLNA music server is setup.

NETWORK AUDIO OPERATIONS

UPnP/DLNA Music Server Computer (This mode only organizes into folder groups. These groups will depend on how you have your server set up)	PC SHARE/SMB Computer (This mode has more selections from the home screen and a more graphical hierarchy as opposed to all folder views)
> Folders Playlists Queues	> Artist Album Genre Composer All Tracks Folders Playlists Queue
> Audio Playlists	
> Artist Album	
> 10,000 maniacs AC DC	
> In My Tribe MTV Unplugged	> 10,000 Maniacs AC DC > In My Tribe MTV Unplugged
> Play ALL What's the Mat	> Play ALL What's the Mat

5. Simply Press Play All or scroll down to your desired track and press Enter/Play.

STREAMING MUSIC SERVICE OPERATION

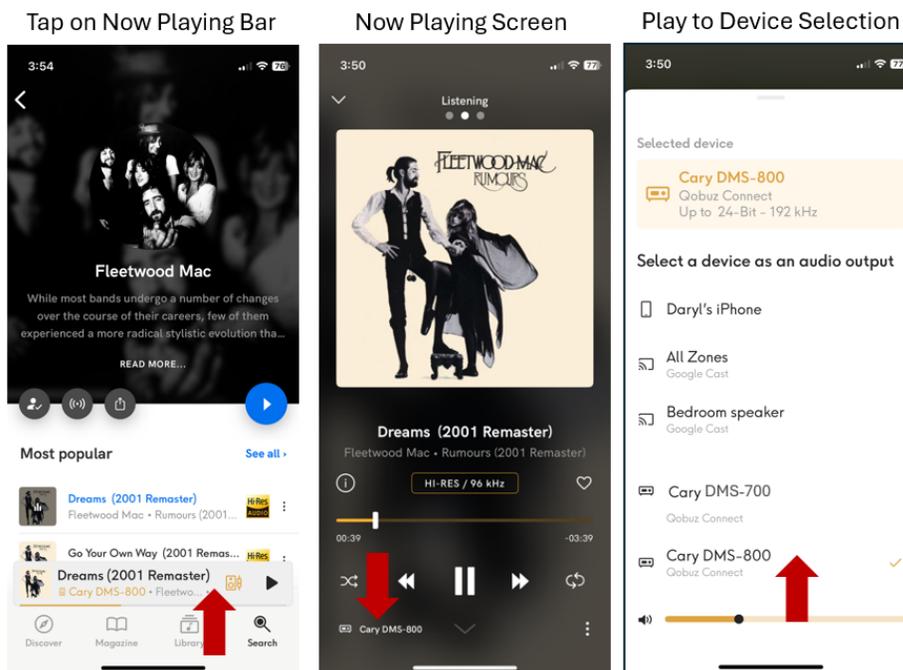
Listening to Internet Music Services; Tidal Connect, Qobuz Connect, Spotify Connect, and vTuner requires a network and router connected to the internet. Unlike network streaming audio, your computer(s) or NAS Drives do NOT need to be turned on since it is accessing the music stream from the Internet and not from your computer. However, make sure a network connection to the DMS-300A is established and internet access is available from your network.

PLAYING TIDAL CONNECT, QOBUZ CONNECT & SPOTIFY CONNECT

Accessing these music services directly is done from your preferred music services' own native app and NOT from within the Cary Streamer 2.0 app.

1. Make sure the DMS-300A is turned on.
2. Open your TIDAL, Qobuz, or Spotify app on your phone or tablet.
3. Play your music selection from the app.
4. Once music starts, navigate to the Now Playing Screen and tap on the "Play to" Device.
5. This will display all available devices you can transfer the music to. Look specifically for the DMS-300A "Connect" connection. **Do not** select the DMS-300A Bluetooth or Airplay Icon as they are not the same as "Connect" feature. The Connect feature will offer significantly superior audio quality ensuring The DMS-300A is connected directly to the services own music servers. Bluetooth and Airplay are sufficient for non-crucial background listening.

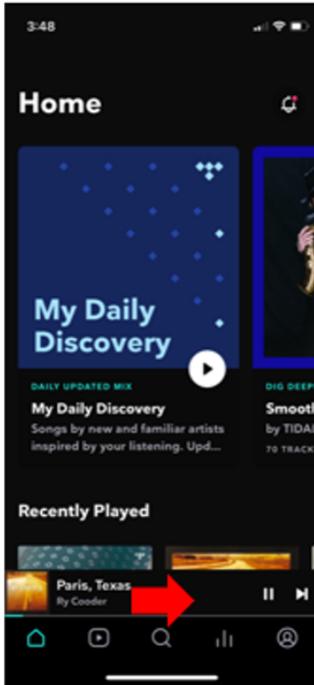
QOBUZ CONNECT



STREAMING MUSIC SERVICE OPERATION

TIDAL CONNECT

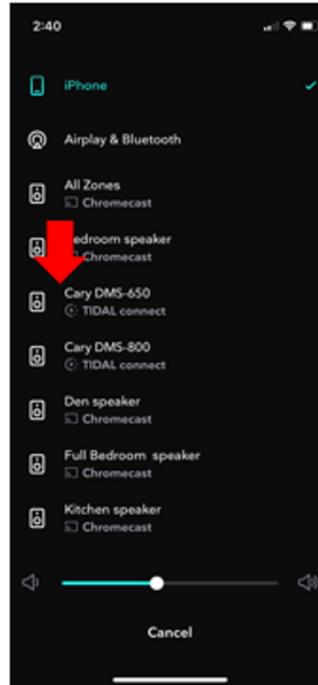
Tap on Now Playing Bar



Now Playing Screen

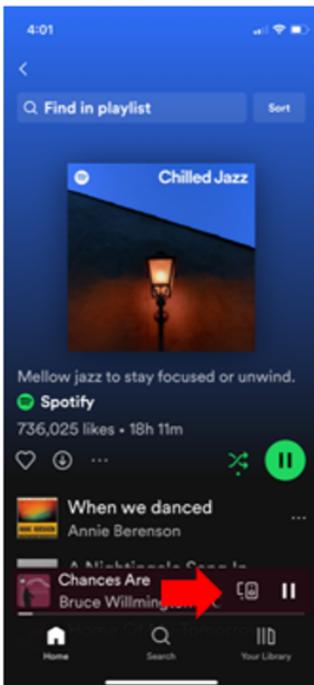


Play to Device Selection



SPOTIFY CONNECT

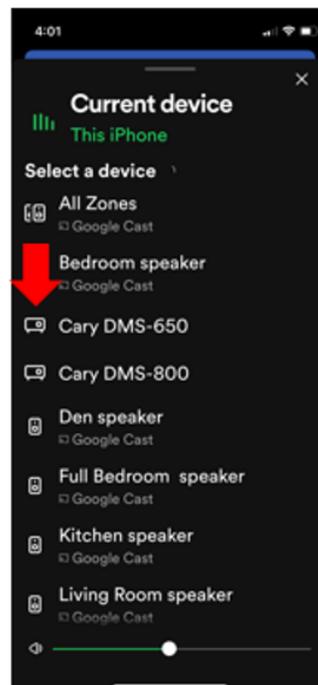
Tap on Now Playing Bar



Now Playing Screen



Play to Device Selection



USB FLASH/HDD AND SD CARD OPERATION

USB AND SD CARD AUDIO PLAYBACK

For those that want to be able to playback their digitally stored music library but don't want to bother with a computer, USB and SD Card playback is a no fuss solution.

The USB and SD Card inputs include; **USB 1 (Front), USB 2, 3 (Rear) and SD Card (Front)**. Like PC SHARE/SMB, The DMS-300A must index the drive's library the first time it is selected. Please note, this can take a while depending on the size of your drive.

NOTE: *SD Cards must be formatted to FAT, FAT32, exFAT or NTFS. It is also a good idea to set the protection to lock for playback. The DMS-300A supports SDHC 32GB & SDXC up to 2TB. If using an SD Card to update the firmware, its best the card is formatted to FAT or FAT32. exFAT can sometimes be used. If you encounter a playback issue from SD or an updating error message using SD, check the formatting and try another format.*

6. Insert an **USB hard disc drive, USB flash/thumb drive or SD Card** into the desired port. Once inserted a message saying an USB or SD media has been mounted, meaning The DMS-300A has successfully connected to it.



7. Press the **USB/SD/COAX/OPT** button on the IR remote until USB/SD is displayed



8. After a few seconds, The DMS-300A will display a list of all connected USB drives or SD Card.
9. Press the key of the remote to move the > to your choice of USB Drive or SD Card and press Enter. Please know the list of connected USB and SD Cards can be more than the two lines the display is limited to. Just keep scrolling down to find the desired source and Press Enter.



USB FLASH/HDD AND SD CARD OPERATION

10. Once a USB or SD Card is selected, note the name of the actual drive will appear in front of the category list.



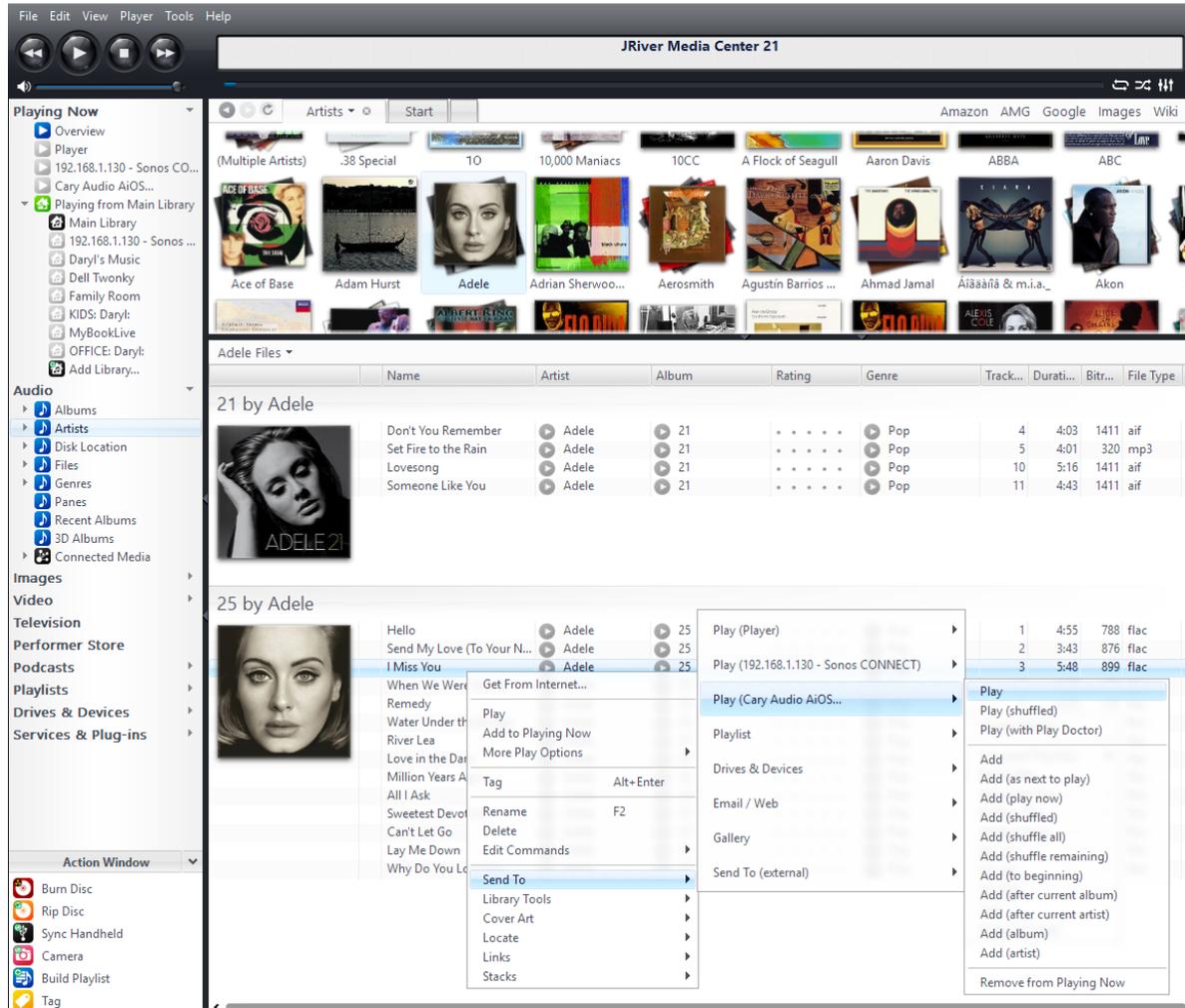
11. Simply Press Play All or scroll down to your desired track and press Enter/Play.

OPERATING THE DMS-300A FROM A COMPUTER

SENDING/PUSHING MUSIC TO THE DMS-300A FROM A NETWORKED COMPUTER

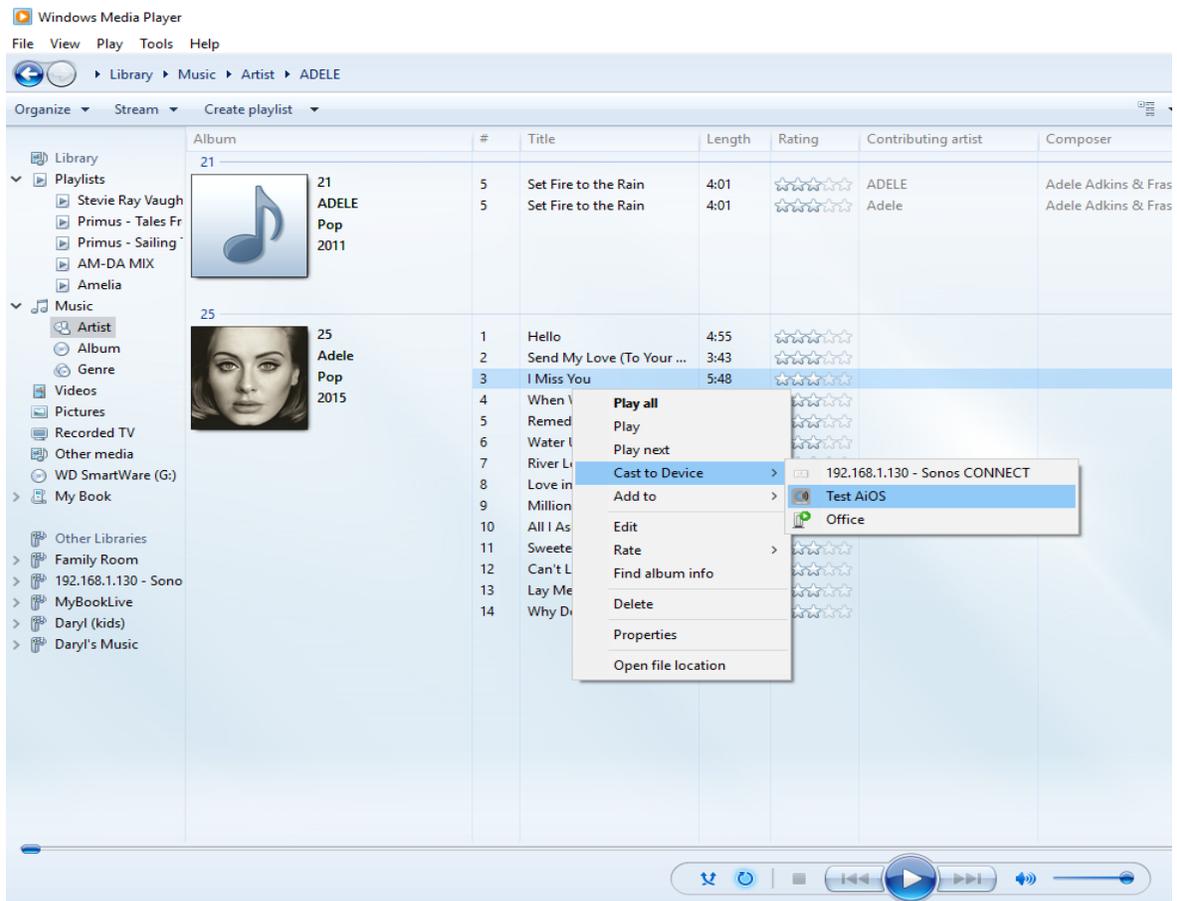
Open your media player of choice. Find the artist or music file you wish to send to The DMS-300A and right click on the selection. Find a "Send To" or "Cast To" selection and select the DMS-300A from the available choices. Once the song is sent to The DMS-300A, it will display as follows.

JRiver MC21 Example



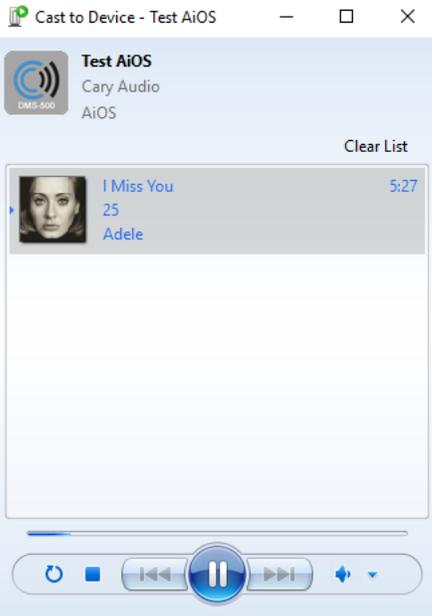
OPERATING THE DMS-300A FROM A COMPUTER

Windows Media Player 12 Example



Once playback has started the media player and THE DMS-300A front panel will display the following.

OPERATING THE DMS-300A FROM A COMPUTER

Computer Confirmation Pop-Up (this may vary from media player)	THE DMS-300A' front Panel Display
	

CREATING AND EDITING PLAYBACK LISTS (QUEUES)

NOTE: This section is only Applicable for playback of USB, SD Card, or network drives.

QUEUE FUNCTION

A Queue is a temporary list of music. This includes all music that is played during a given session, or manually added to the queue while listening to a Network, USB, or SD Card source. All music temporarily stored in a queue is specific to that source. All music played during a session is stored in the Queue with the most current selection being added to the bottom of the list. All music stored in the queue will be cleared at turn off. To save the Queue, please see Playlists below.

To **ADD** music to a Queue

- Highlight an Album or Track and press the Add button on the remote. A pop-up message saying "ADD OK" will display confirming the selection has been added to the queue.



NOTE: When in Server Mode, only folders that have only songs within them can be added to the queue. For example; you cannot add an Artist to the queue in server mode IF there are album folders within. This is also dependent on the server folder hierarchy as they can vary from server to server.

To **VIEW** a Queue

- The easiest way is to Press Queue button on IR remote and the queue list will display.
- Alternatively, when pressing the Home button while in Network, USB or SD Card mode, you can scroll down and highlight the Queue command and press enter. This will display a list of the songs within or added to the Queue of that source.

UPnP/DLNA Home screen	PC Share/SMB Home screen
Folders Playlists >Queue	Artist Album Genre Composer All Tracks Folders Playlists >Queue

NOTE: To quickly delete a song from the Queue, simply highlight it and Press the DEL key on the IR remote. You can also press the DEL key while the song is playing to remove it and skip to the next track in the queue.

CREATING AND EDITING PLAYBACK LISTS (QUEUES)

To **PLAY** or **EDIT** the Queue

➤ **TO PLAY**

While viewing the Queue, Press Enter to PLAY the Queue (the solid arrow next to the track denotes the first track to be played within the Queue).



PLAY OR > FOR OPTIONS
>▶ Harmony

- If you scroll down the solid arrow will follow and you can press Enter on any track to begin playback of the Queue at that track.



Harmony
>▶ Half the World

➤ **To EDIT**

While viewing the Queue, scroll up to "PLAY OR > FOR OPTIONS". Press right Key for editing options as shown below.



>Edit Queue
Clear Queue
Save to Playlist
Save as Playlist

- Scroll to the desired option and press Enter and follow on-screen prompts.

SAVING Queues

- Please see the next section, "CREATING AND EDITING PLAYLISTS".

CREATING AND EDITING PLAYLISTS

PLAYLIST FUNCTION

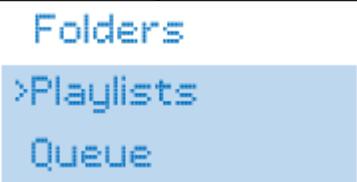
A Playlist is a queue from a Network, USB or SD Card source that has been saved. Queues can be saved as a playlist or save to an existing playlist. Playlists created by The DMS-300A using THE DMS-300A are saved to The DMS-300A' Home Screen Playlists and not within the computer's media server itself. Therefore, you can only access the DMS-300A created playlist from The DMS-300A and not from the media server software on your computer. However, if you have saved, created or imported playlists from inside your computer's media server program to the media server Playlist folder, they will show up within the "Folders>Playlists" expansion view depending on how you set it up in your media server. The Playlist as shown from The DMS-300A' Home Screen "Playlists" are those created within and while using The DMS-300A itself.

TO SAVE A QUEUE AS A PLAYLIST	TO SAVE QUEUE TO PLAYLIST
From the Queue view press right <input type="checkbox"/> Key for EDIT OPTIONS, scroll down to SAVE AS PLAYLIST and press Enter and follow the on-screen prompts.	From the Queue view, press right <input type="checkbox"/> Key for EDIT OPTIONS, scroll down to SAVE TO PLAYLIST and press Enter and follow the on-screen prompts.
	

To **VIEW** Playlists

- From the Network, USB or SD Card source, press the Home button on the IR remote. Highlight the Playlist option and press enter.

NOTE: If you saved, created or imported playlists from inside your computer's media server program, they will show up within the "Folders>Playlists" expansion view depending on how they were set it up in your media server. The Playlist as shown from The DMS-300A' Home Screens are those create within and while using The DMS-300A itself.

UPnP/DLNA Home screen	PC Share/SMB Home screen
	

CREATING AND EDITING PLAYLISTS

- This will display a list of any saved/created Playlists. All Playlists will have the "Playlist Icon" in front of it.

```
PLAY OR > FOR EDIT
>:≡ Relaxation
```

To **PLAY** a Playlist

- While viewing Playlists, simply highlight the desired Playlist and press Enter.

To **EDIT, DELETE, or RENAME** a Playlist

- While viewing Playlists, press right Key for EDIT OPTIONS.

```
PLAY OR > FOR EDIT
>:≡ Relaxation
```

- Select the desired option and press Enter and follow the on-screen prompts.

```
>Edit Playlist
Delete Playlist
Rename Playlist
```

DIGITAL AND ANALOG INPUT OPERATION

LISTENING TO COAXIAL AND OPTICAL DIGITAL INPUTS

COAXIAL and OPTICAL Digital inputs are designed to be connected to the digital outputs of older or legacy digital products such as CD players, Satellite/cable TV converter boxes, DVD players, Game consoles, etc., or any device that has a Coaxial or Optical digital output. The Coaxial and Optical digital inputs can only accept PCM signal up to 24 Bit 192 kHz. Trying to pass a non PCM signal or anything thing greater than 24 Bit 192 kHz may cause noise or damage to the units.

1. *Select* the desired input by *repeatedly pressing* **USB/SD/COAX/OPT** button on the IR remote and simply stop on COAXIAL or OPTICAL input as desired.
2. Initiate playback of the corresponding digital source. Refer to the Now Playing Screen section of this manual to learn about how and what information is displayed on The DMS-300A' front panel.

DID YOU KNOW?

Using Cary Audio's proprietary TruBit™ PCM and DSD Upsampling and conversion technology allows you to get the most out of the digital input signals during playback for a superior listening experience. With TruBit™, you can upsample to 1 or 7 different sample rates or 1 of 3 different PCM to DSD conversion rates. *See more on this in the in the PCM to DSD upsampling/conversion section of the manual.*

LISTENING TO ANALOG LINE LEVEL INPUT

The LINE INPUTS are traditional analog inputs you can connect using standard RCA or 3.5mm mini jack connections.

NOTE: You cannot connect a phono input [record player/turntable] unless it has a built in phono-preamp or using a separate phono-preamp.

1. Select the desired input by *pressing* the **LINE IN** button on the IR remote. Repeatedly pressing this button will cycle through Line inputs 1, 2, and 3. Simply stop on the input you desire to listen to.
 - a. **LINE 1** – Standard pair of stereo RCA connections.
 - b. **LINE 2** – Standard pair of stereo RCA connections.
 - c. **LINE 3** - 3.5mm stereo mini jack. (phone, tablets or other devices that use a 3.5mm mini jack output)
2. Initiate playback of the corresponding analog (Line level) source. Refer to the Now Playing Screen section of this manual to learn about how and what information is displayed on The DMS-300A' front panel.

DID YOU KNOW?

The DMS-300A actually converts your analog line level inputs into a digital signal so Cary Audio can utilize its proprietary TruBit™ PCM and DSD Upsampling and conversion technology allowing you to get the most out of the analog input signals during playback for a superior listening experience. This converts the signal to digital then allows you to upsample it to 1 or 7 different sample rates or 1 of 3 different PCM to DSD conversion rates before converting back to analog for listening. *See more on this in the in the PCM to DSD upsampling/conversion section of the manual. This is also necessary (and advantageous) so you can listen to your analog line level source through our Bluetooth SEND feature (See below).*

USING PRE-OUT, MAIN-IN AND SUB-OUT FUNCTIONS

PRE-OUTPUT FUNCTIONS

The PRE-OUT jacks have multiple functions.

1. **Using The DMS-300A as a SOURCE only:** If wanting to use The DMS-300A strictly as a source, bypassing its amplifier, follow these steps after disconnecting your speakers and connect The DMS-300A pre-outs to your preamplifier, integrated amplifier or receiver.
 - a. In The DMS-300A' menu, set **Speaker Out** to **OFF**. This will turn off the main amplifier.
 - b. Set the volume to 87 for full 3.0v output or 74 for a 2.0v output.
2. **Adding more power, speakers, or distributed audio:** If requiring more power than The DMS-300A provides, you can use the pre-out to connect to the inputs of a separate power amplifier to drive your speakers or an additional set of speakers, a set of active/powered speakers, or even use to input into a distributed audio system.
3. **Using an external "loop" processor:** If using an analog based equalizer, room enhancer, etc. connect the pre-out of The DMS-300A to the inputs of the processor. **IMPORTANT:** the outputs of the processor must be connected to the Main-in jack of the The DMS-300A to create the "loop" and the MAIN-IN function of The DMS-300A MUST be turned on. **See more on this below in the MAIN-IN section**

NOTE: The PRE-OUT jack are always active and cannot be turned off. If the pre-outs are connected to additional amplifier(s) while listening to The DMS-300A but you do not wish to listen to those additional speakers/zones, you must manually turn off the external amplifier(s). **Also refer to Bluetooth SEND function below.**

MAIN-IN FUNCTION

The MAIN-IN function works only in conjunction with the PRE-OUTPUT of The DMS-300A. This creates a signal loop. For example: Maybe you have a room enhancer/correction processor. The DMS-300A will send out its "unprocessed" signal via the pre-out and send it to the processor. The processor processes the signal and sends the "processed" signal back to The DMS-300A via the MAIN-IN and then amplifies it. To activate the loop, you MUST turn on the MAIN-IN function in The DMS-300A' menu (or control app).

SUBWOOFER OUTPUT

The SUBWOOFER OUTPUT is designed to be connected to an active (powered) subwoofer to complement your main speaker's bass performance. The Subwoofer output is a full range signal.

1. Connect the **SUBWOOFER OUT** to the *line level stereo RCA inputs of an active subwoofer*. If the subwoofer only has a mono input, use a Y-connector.
2. Use your subwoofers lo-pass crossover to set the frequency level cut off point to match your speakers along with your subwoofer volume control to match the sensitivity of your speakers for a balanced sound. Once these adjustments have been made on the subwoofer, you should only have to adjust The DMS-300A' volume up or down and the subwoofer will adjust accordingly.

AIRPLAY AND PHONESHARE OPERATIONS

The DMS-300A can play music from phones and tablets in several ways. These methods include Airplay, Phoneshare, and Qualcomm aptX® Bluetooth. Airplay and PhoneShare operate via the same method although AirPlay is primarily for iOS devices and PhoneShare for Android devices.

AIRPLAY AND PHONESHARE PLAYBACK AND CONNECTION

Airplay is primarily for iOS devices while PhoneShare is for Android devices. They both require a wireless connection of your portable device to your network and sends music from your device to your router over Wi-Fi. The router then sends it to The DMS-300A either Wi-Fi or wired Ethernet depending on how your The DMS-300A is connected to your network router. The advantages of AirPlay and PhoneShare is that since it relies on Wi-Fi the range which you can send music to The DMS-300A from your portable device is much greater than Bluetooth. Airplay only transmits at 44.1 kHz. PhoneShare will send signals greater than 44.1 kHz, even DSD natively without any conversion.

- (1) Open your desired music app and look for this icon 
- (2) Tap on the icon and wait for available device(s) to appear.
- (3) Select "Cary Audio DMS-300A" with "Airplay" icon and start playback of your music selection.
- (4) The DMS-300A will display all track information on the front panel.
- (5) To use PhoneShare from Android devices, PhoneShare will be listed as an INPUT on the android app. Select it to view and play the music on that device to The DMS-300A.

NOTE: Volume control during Airplay is taken over by the portable device. Therefore, you can increase and decrease the DMS-300A' volume with the portable device itself (this is opposite of how Bluetooth volume operates).

BLUETOOTH RECEIVE SETUP

BLUETOOTH OVERVIEW

Bluetooth can work for both iOS and Android devices. The advantage of Bluetooth is it's a point-to-point signal, meaning no Wi-Fi or router connection is required to work. However, the range of Bluetooth is much shorter than other playback connections.

Qualcomm aptX® Bluetooth audio is capable of CD quality audio. For more information, please visit Qualcomm's web site at <https://www.aptx.com/aptx>

PAIRING A BLUETOOTH DEVICE

Just like connecting a phone to your car's Bluetooth, you can connect your phone to the DMS-300A.

Pairing a device with the DMS-300A

When connecting a Bluetooth device to the unit for the first time, you must "pair" it to the DMS-300A. Once pairing is completed, subsequent connection can be made with a couple of easy steps.

Initial Pairing Steps

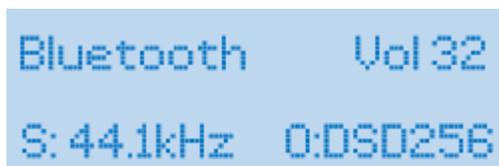
1. **Select** the **BLUETOOTH** input on The DMS-300A and the display will show as follows;



2. **Go to** the "**Settings**" of your portable device and find *Bluetooth settings* and make sure Bluetooth function is **ON** and in **search mode**.
3. **Cary Audio The DMS-300A** should appear on your portable device as shown. Select it.
4. After pairing is complete, the device will show "Connected".

Once pairing has successfully been completed, you can easily enjoy music from your portable device as follows.

- (1) Make sure "**Cary Audio The DMS-300A**" is selected and connected as shown above on your device.
- (2) Open your desired music app and look for this icon 
- (3) Tap on the icon and wait for available device(s) to appear.
- (4) Select "Cary Audio The DMS-300A" with "Bluetooth" icon and start playback of your music selection.
- (5) The DMS-300A will display all track information on the front panel.



HOW TO CUSTOM NAME INPUTS

RENAMING INPUTS

Once again, the DMS-300A is all about Lifestyle audio and customization. This means you can rename any input to something more familiar or easily understood. For example, if you have a CD player connected to "LINE 1", you can rename LINE 1 to "CD Player". This allows anyone who uses your DMS-300A system to easily navigate through the connected sources.

1. Press the **MENU** Button on the IR remote and *scroll down to "Input Names"* and *press Enter*.
2. This will display all the default input names as follows; *COAXIAL, OPTICAL, BLUETOOTH, LINE1, LINE 2, LINE 3, and Reset All*.
3. Scroll to the desired input and press **Enter**. For example; highlight LINE 1 and press Enter.



```
> LINE 1
  LINE 2
```

4. Using the alphanumeric keys on the IR remote, type the new name and press **Enter** when done.



```
RENAME LINE 1
CD Player_
```

5. From now on input LINE 1 will be called "CD Player".
6. To reset all custom names, scroll down to Reset All and press Enter.

NOTE: You can rename all inputs except Network, Internet, USB, and SD Card. If you reset or update the DMS-300A firmware, it is possible you may lose your stored information.

ROON READY OPERATION

ROON OVERVIEW

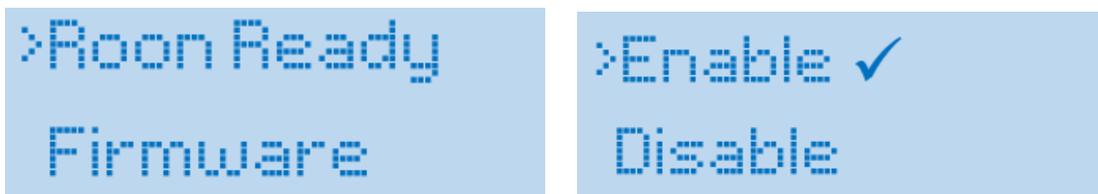
The DMS-300A is a Roon Ready Certified endpoint. This means if you subscribe to Roon and have the Roon Core software installed on your PC or MAC, you can use the Roon tablet or Phone app to playback music from your network storage to The DMS-300A. When you use the Roon ecosystem for playback, your control of The DMS-300A is limited to the Roon app's ability. For example, you can turn The DMS-300A on or off from the Roon app and control volume options as well as any other Roon integrated feature, such as TIDAL. However, all other The DMS-300A features are only accessible from the DMS-300A IR or app remotes.



ROON SETUP

Turn on The DMS-300A and check for the latest firmware update as outlines previously in this manual.

1. Once you confirm you have the latest The DMS-300A firmware you must enable "Roon Ready" from the DMS-300A Menu. MENU>>ROON READY>>ENABLE.



Before proceeding you must download and install the Roon Core software on your computer (<https://roonlabs.com/downloads.html>) and setup your library monitoring and other personal preferences within the Roon Core software. Below details how to enable The DMS-300A as a Roon Ready endpoint within Roon Core.

1. In Roon Core software, select **Settings**, then **Audio**.
2. Scroll down to the "Networked" section. You should see The DMS-300A listed. If not, click on [+ Add Networked Device](#).

ROON READY OPERATION

3. Once The DMS-300A is listed, it will show a blue "Enable" box.

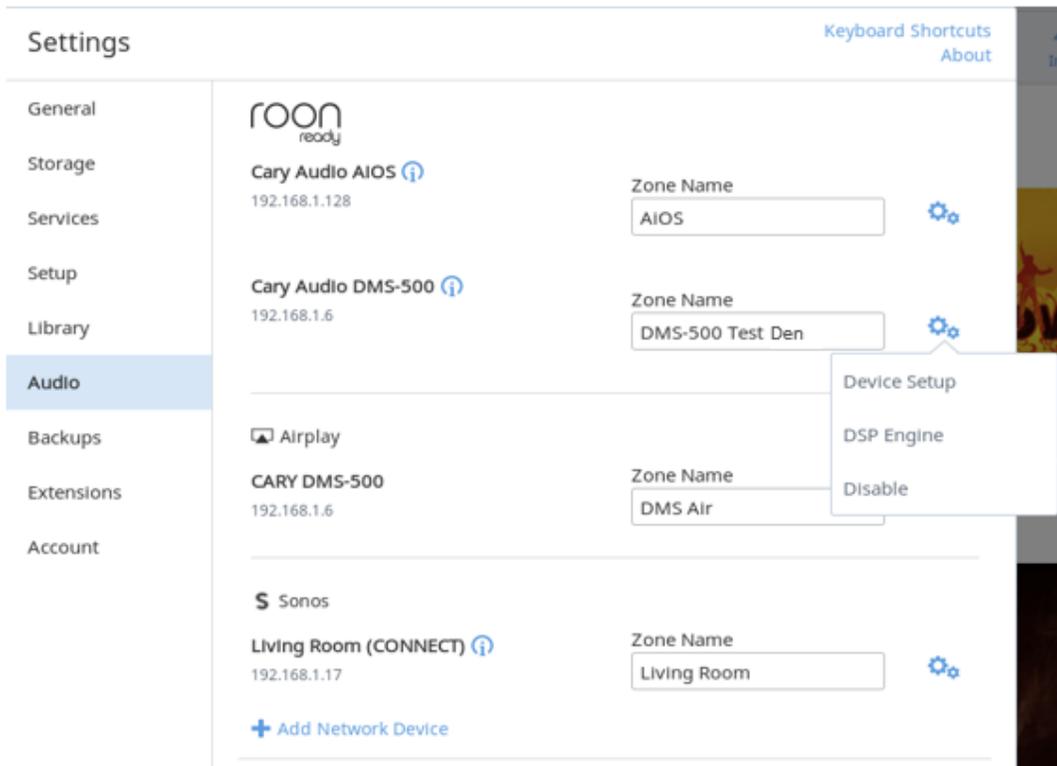
The screenshot shows the 'Settings' page for a Sonos system. The 'Audio' section is selected in the left-hand menu. Under the 'Airplay' section, two devices are listed: 'CARY Audio AIOS' (IP: 192.168.1.128) and 'CARY Audio DMS-500' (IP: 192.168.1.6). Both devices have a blue 'Enable' button next to them. Below the 'CARY Audio DMS-500' device, there is a 'Zone Name' field containing 'DMS Air'. Below the 'Living Room (CONNECT)' device, there is a 'Zone Name' field containing 'Living Room'. At the bottom of the list, there is a '+ Add Network Device' button. In the top right corner, there are links for 'Keyboard Shortcuts' and 'About'.

4. Once you click on "Enable" it will ask for the name of the Zone.

This screenshot shows the same 'Settings' page as above, but now the 'Zone Name' fields have been filled out. For 'CARY Audio AIOS', the zone name is 'AIOS Office'. For 'CARY Audio DMS-500', the zone name is 'DMS-500 Den'. The 'Living Room (CONNECT)' device still has 'Living Room' as its zone name. The '+ Add Network Device' button is still visible at the bottom. The 'Keyboard Shortcuts' and 'About' links are still in the top right corner.

ROON READY OPERATION

5. You can leave the Roon Core settings for the DMS-300A in their default setting.



ROON READY OPERATION

After completing the above steps of enabling The DMS-300A Roon Ready capability and downloading, installing, setting up the Roon Core computer software, you can follow the below steps to playback music files via the Roon ecosystem.

1. *Open* the Roon tablet or phone app.
2. *Press* the **Select an Audio Zone**.
3. *Select* The DMS-300A as the desired zone and *Press* the Sound Icon, which will reveal a dropdown box.
4. In this box is a Power Button Icon. *Press* it and The DMS-300A should power on.
5. Once The DMS-300A is fully powered up and ready to go, you can simply browse the Roon App interface to select any music you wish. Once you select Play, it will send the music to The DMS-300A via a bit perfect stream of data.

For more in-depth details of operation Roon Core and Roon App(s), please refer to the Roon website. https://kb.roonlabs.com/Roon_User_Guide

SPECIFICATIONS

The following section describes the DMS-300A and its basic specifications. The specifications are subject to change without notice or obligation.

Master Quality Authenticated (MQA)

The DMS-300A includes MQA technology, which enables you to play back MQA audio files and streams, delivering the sound of the original master recording. This ensures that MQA-encoded audio files and streams sound exactly like the source. 'MQA' or 'MQA.' (Studio indicates that the unit is decoding and playing an MQA stream or file, and denotes provenance to ensure that the sound is identical to that of the source material. "MQA Studio" ['MQA.' * indicates it is playing an MQA Studio file, which has either been approved in the studio by the artist/producer or has been verified by the copyright owner.

POWER AMPLIFIER

Analog Input	Single-Ended RCA x 3 for Main-In, Line 1, Line 2 3.5mm Stereo Jack x 1
Analog Input Impedance	10K Ω Unbalanced,
Power Amplifier Output	2 x 75W RMS in 8 Ω from 20Hz to 20KHz 2 x 125W RMS in 4 Ω from 20Hz to 20KHz
Circuit Type	Solid State, Power MOSFET Transistor, Class A/B
Frequency Response	10Hz – 50KHz +/- 0.1dB (at 10db below rated output power)
Distortion (SAMPTE-1M)	<0.5%
S/N Ratio	>100dB, "A" Weighted
Protections	Full short circuit, thermal, Ultrasonic, RF Signal muting & Current limiter.

BASIC SPECIFICATIONS

Master Clock Jitter	Below measurable levels
Digital Sampling Rates (Fs)	44.1 kHz to 768 kHz
Digital Filter	32-Bit 8x Oversampling Digital Filter
Digital/Analog Converters	1 - 2 channel AK4490EQ
BLUETOOTH	Qualcomm aptX® decoder and transmitter
Analog Filter	3 rd Order Bessel
Analog SUB Outputs	Single – Ended RCA

SPECIFICATIONS

Digital Outputs	Coaxial, Toslink operating at Sample Frequency (Fs) from 44.1 kHz to 192 kHz, 16 bit to 24 bit
Digital Inputs	USB-A x 3, SD Card x 1 BLUETOOTH In Coaxial x1, Toslink x1
Digital Input Sample Rate	USB operating at Sample Frequency (Fs) from 44.1 kHz to 384 kHz, 16 bit to 32 bit, DSD 64, 128, 256 and 512. BLUETOOTH Sample Frequency (Fs) 48 kHz, 16 bit. Coaxial, Toslink operating at Sample Frequency (Fs) from 44.1 kHz to 192 kHz, 16bit to 24 bit
Control	Trigger output 12VDC x1 IR control x1
Communication	Ethernet Wi-Fi 802.11 b/g/n
Power Input	Configured at factory for either 110-120 or 220-240 VAC, 50-60 Hz
Power Consumption	225 Watts
Dimensions	3.75" H x 17.25" W x 12.5" D
Weight	26 lbs.

AUDIO (LPCM)

Frequency Range	2 Hz - 22 kHz (44.1 kHz)
Amplitude Linearity	0.1 dB (20 Hz – 20 kHz)
Phase Linearity	3 degrees (20 Hz - 20 kHz)
Dynamic Range	117 dB (1 kHz)
Signal-to-Noise Ratio	107 dB (1 kHz)
Channel Separation	106 dB (1 kHz)
Total Harmonic Distortion	0.0004% (1 kHz)
Pre-Amp Output Level	3.0V RMS (220 Ω output impedance) for maximum volume

SPECIFICATIONS

NETWORK, USB, SD CARD PLAYBACK

PLAYBACK FORMAT SUPPORT .dsf, .dff (DSD64, 128, 256, 512), .aif, .aiff, .alac, .flac, .m4a, .mp4, .wav, .ape, .mp3, .aac, .wma, .ogg, .asf

Frequency Range 2 Hz - 100 kHz

Signal System 16, 20, 24, & 32 bit PCM and 1 bit DSD

Sampling Frequency 44.1 kHz to 384 kHz PCM and 2.822MHz – 22.5792 MHz DSD

Dynamic Range 117 dB

DSD System Clock Frequency 22.5792 MHz

Signal-to-Noise Ratio 107 dB

SPDIF PLAYBACK; COAXIAL, TOSLINK (LPCM)

Frequency Range 2 Hz - 80 kHz

Signal System 16, 20, and 24 bit

Sampling Frequency 44.1 kHz to 192 kHz PCM

Dynamic Range 117 dB

System Clock Frequency 22.5792 MHz

Signal-to-Noise Ratio 107 dB

SERVICE AND CARE

CARE AND CLEANING

The cabinet housing and front panel of the DMS-300A may be cleaned with a soft cloth and Windex or a window cleaner. The frequency of cleaning will be governed by how many hours The DMS-300A is operated and by operating environment cleanliness.

CAUTION:

- Do not let any liquids spill into the vents on top of the unit.

AC POWER FUSE REPLACEMENT

WARNING: When replacing the power fuse, make sure the unit is NOT PLUGGED IN.

The value for the fuse whether in the US or Non-US countries should be replaced using a 3.15A 250V Slow Blow fuse. Since this value is universal it will work in all countries.

Note: Customers within countries that support 110V-130V, the 3.15A 250V Slow Blow fuse can be replaced with a 6.3A 125V Slow Blow fuse.

To access the AC fuse, remove the left side panel (left side while facing the front of the unit) by removing the two screws on the bottom and one screw on the rear of the side panel using a small Phillips head screwdriver. At the rear left portion of the circuit board next to the AC socket, you will see a glass fuse with a plastic housing. Remove this housing and replace the fuse with the value and type listed above, then reinstall the left side panel with the three screws.

FACTORY SERVICE

Careful consideration has been given to the design of your DMS-300A to keep maintenance problems to a minimum. Any problems or requests for service should be referred to our Customer Service Department at 919-355-0010. DO NOT return the DMS-300A to the factory without a Return Merchandise Authorization (RMA) number from our online Customer Service Center (www.caryaudio.com).

Cary Audio will assume no responsibility if the shipping company refuses to pay for damage due to your improper packing or lack of insurance should the unit be lost or damaged in shipment. Please retain and always use the original shipping carton for shipping the player. Also, Cary Audio reserves the right to return products sent in for service in a new box set at the customer's expense if the original packing material was damaged in the initial shipment, or if it is deemed unsatisfactory to use in return shipping.

NON-WARRANTY REPAIRS

Cary Audio will provide repair service for its products charging on a time and expense basis. At this time, the standard non-warranty service bench fee is \$125 for the first hour and \$95 per hour thereafter. Parts used for repairs as well as return shipping are additional. This may change and is not a quote for service. Please call us at 919-355-0010 for more information about out-of-warranty service and repair fees.

CAUTION:

- Never remove or insert the back panel AC plug when the unit is on or the AC cord is plugged into the wall

PRODUCT REGISTRATION AND WARRANTY

Please click [here](#) to register your new Cary Audio product online.

Please click [here](#) to view our product warranty.

Logos, Trademarks, and Licensing

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Qualcomm aptX is trademark of ©2021 Qualcomm Technologies International, Ltd. and/or its affiliated companies.



Direct-Stream Digital (DSD) is the trademark of © 2021 Sony Corporation and 2021 © Koninklijke Philips

Written Offer for Source Code

For third party technology that you receive from Cary Audio in binary form which is licensed under an open source license that gives you the right to receive the source code for that binary, you can obtain a copy of the applicable source code by [downloading here](#).

CARY AUDIO

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