

manual

Wadia **151PowerDAC**
mini

Thank You.

All of us at Wadia Digital would like to say thank you, and congratulations for purchasing the Wadia 151PowerDAC mini Digital Integrated Amplifier. We sincerely believe that your Wadia 151PowerDAC mini is an intelligent investment that will bring you many years of musical enjoyment and satisfaction.

We understand how eager you are to begin listening and we want you to become familiar with the full capabilities of the Wadia 151PowerDAC mini. However, before powering on the device, we encourage you to look through the manual and pay special attention to the sections highlighted with an ◆.

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Wadia Digital – a Brief History

Wadia Digital, founded in 1988, is one of the original companies dedicated to high performance digital audio reproduction. Wadia was formed by a team of engineers from the Minneapolis based 3M Corporation (Minnesota Mining and Manufacturing) who shared many years of experience in advanced digital telecommunications research and development. In the early 1980's, these engineers became intrigued by the emerging compact disc technology. Disappointed with the sound quality of early CD players, they examined the workings and designs of these early components and found them to be unsophisticated when compared with the technology available in other areas of digital design. In response, they founded Wadia Digital – a company based on the philosophy of applying advanced technology to improve the performance of digital audio components. Wadia's first product, the Wadia 2000 Decoding Computer, was an absolute breakthrough in digital audio. For many discerning listeners, it proved that Digital Audio was a musically responsive, evolving, and engaging format.

Building on a tradition of excellence, Wadia continues to develop innovative technology; refining, listening, engineering, and improving along the way. Since the Wadia 2000, new generations of industry-leading designs have been introduced and embraced by listeners around the world. Each step of the way, Wadia has consistently raised the standard for performance of Digital Audio playback.

Here is a brief list of the technological innovations the Wadia engineers have pioneered over the past 20 years:

- DigiMaster™ patented algorithm (filter optimized for reproducing music)
- ClockLink™ proprietary jitter reduction technology
- SwiftCurrent™ current to voltage conversion technology
- First outboard Digital-to-Analog converter
- First to apply glass fiber-optics to home audio
- First to recognize jitter as a source of audible distortion
- First to perfect digital volume control
- First high-end CD player competitive with expensive separates
- **First company to provide bit perfect digital audio output from the iPod**

While Wadia's expertise and track record exceed those of most digital audio companies, technology alone does not guarantee an immersive and captivating musical performance. Wadia's intuitive designs are born of a delicate balance of technology shaped by a passion for music.

Wadia continues to re-define the limits of digital music playback. We are proud to introduce the Wadia 151PowerDAC mini – a breakthrough in sonic performance and a strong statement of our dedication to music.

Optimizing Performance

To get the best performance from your 151PowerDAC mini, and for your own safety, please read and follow these important safety instructions.

- Before operating the 151PowerDAC mini please read all operating and safety instructions.
- Never place the 151PowerDAC mini near heat sources such as radiators, fireplaces, stove, or other appliances that produce heat. Avoid placing the 151PowerDAC mini where it will be subject to direct sunlight or low temperatures.
- This product is equipped with a three prong AC power cord which includes an earth ground connection. To prevent shock hazard, all three connectors must always be used. If your electrical outlets will not accept this type of plug, an adapter may be purchased. If an adapter is necessary, be sure it is an approved type and that it is used properly, supplying an earth ground. If you are not sure of the integrity of your home's electrical system, contact a licensed electrician for assistance.

- AC extension cords are not recommended for use with this product. If an extension cord must be used, be sure it is an approved type and has sufficient current carrying capacity to power this product.
- Before cleaning the 151PowerDAC mini, always disconnect the power supply cord. Use a soft cloth and, if necessary, dampen with plain water. Never apply water, or any other cleaner, directly to the chassis.
- If you smell smoke, or an abnormal smell, immediately unplug the 151PowerDAC mini from the power supply and contact your Wadia dealer.
- Unplug unit if it becomes wet.
- THERE ARE NO USER SERVICEABLE PARTS INSIDE THE 151PowerDAC mini!
Do not attempt to repair or modify your 151PowerDAC mini.
All service should be performed by qualified service personnel.
Do not open the unit while it is attached to the AC outlet.

Installation

Getting Started

The Wadia 151PowerDAC mini is an integrated amplifier with 4 digital inputs with upsampling to 24-bit/384kHz. Despite its small size the 151PowerDAC mini, bursting with technology to bring you the best sound possible.

Features

- 24-bit/384kHz upsampling
- Accepts up to a 24-bit/192kHz input data rate
- Wadia's DirectConnect with Digital Volume Control technology
- 25 Watt/channel 8 Ohm, 50 Watt/channel 4 Ohm
- 4 Digital Inputs: 2 Coaxial S/PDIF (RCA), 1 TOSLINK Optical, 1 USB B
- 5-way insulated Gold Binding Posts
- High quality Gold Plated Input Jacks
- Aluminum full function Remote Control
- Heavy Duty Power Cord

Unpacking

Use care in unpacking your Wadia 151PowerDAC mini. Inspect it for any shipping damage and call your dealer immediately if any is found.

Do not plug your Wadia 151PowerDAC mini into an AC outlet if you find shipping damage.

We advise saving all packing materials so that the unit can be easily and safely shipped if the need arises.

Accessories

Provided with the Wadia 151PowerDAC mini are the following accessories:

- AC power cord
- Remote Control
- Two AAA batteries

Installing Battery in Remote Control

The Wadia 151PowerDAC mini remote control requires two AAA batteries, which you will find in the accessories kit. To install the batteries, remove the battery cover on the back of the remote. Insert the batteries as indicated on the battery holders, and replace the cover.

◆ Connecting to AC Power

Check to make sure that the power cord shipped with your Wadia 151PowerDAC mini has been manufactured for operation at your AC line voltage. Damage caused by improper operation is not covered by Wadia warranty. If the included cable and wall termination is different from your AC outlet, contact your Wadia dealer.

◆ Using AC Line Conditioners

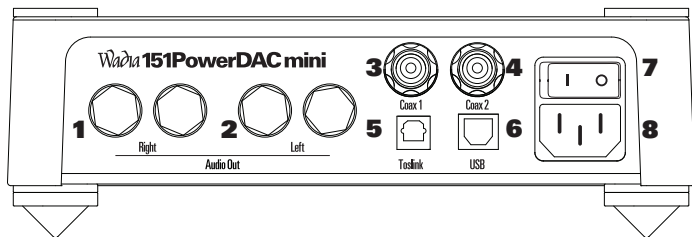
The Wadia 151PowerDAC mini employs extensive power-line filtering and noise suppression technology so fine performance is available with the Wadia 151PowerDAC mini plugged directly into a wall outlet using the AC power cord provided. However many users report gains in sound quality when using power conditioners or after-market power cords. If you wish to experiment with any of these devices we recommend working with your dealer and trusting your own ears for what sounds best.

◆ Using a “Surge Protector”

Although the Wadia 151PowerDAC mini resists most significant voltage spikes it can still be damaged by extreme voltage overload such as a lightning strike. This type of damage is not covered under warranty. In certain circumstances, a “surge protector” can prevent this type of damage. If needed, we recommend a high quality conditioner/surge protection device to avoid the degradation in sound typical with inexpensive “strip” devices.

Connections

Avoid static discharge to the inputs or outputs. To prevent static shocks, touch any grounded surface, such as the chassis of any component that uses a grounded 3-prong plug, before connecting or removing a cable.



Back Panel

- 1 Right speaker terminals
- 2 Left speaker terminals
- 3 Coax 1 S/PDIF (RCA)
- 4 Coax 2 S/PDIF (RCA)
- 5 TOSLINK Optical
- 6 USB B
- 7 Power Switch
- 8 Power cord terminal

◆ **Speaker Outputs**

The speaker outputs are on the back of the Wadia 151PowerDAC mini. Connect the left speaker to the left speaker terminals and the right speaker to the right speaker terminals. Make sure you keep the Wadia 151PowerDAC mini positive terminal (red) with the positive terminal on the speaker and the negative (black) on the Wadia 151PowerDAC mini with the negative (black) on the speaker.

◆ **Connecting the Digital Inputs**

The Wadia 151PowerDAC mini has 4 digital inputs on the back.

• **2 Digital Coax Inputs:**

Use a digital cable coax with RCA connectors. A digital source would be the Wadia 170iTransport.

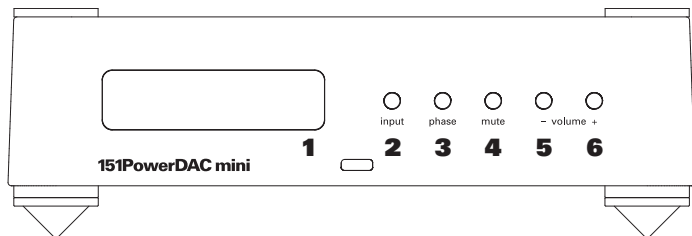
• **1 TOSLINK Optical Input:**

Use a TOSLINK optical cable from a digital source. DVD player or Laptop computer with optical output.

• **1 USB Input:**

Use a USB cable from a desktop or laptop computer. The USB input accepts a sample rate up to 24-bit/96kHz.

Operation



Front Panel

- 1 LCD display
- 2 Input Selector
- 3 Phase Button
- 4 Mute Button
- 5 Volume Up
- 6 Volume Down

Using the 151PowerDAC mini

Power

The power switch is located on the back panel of the Wadia 151PowerDAC mini. Depress the power switch (circle) to turn the power “off”. Please make sure the Wadia 151PowerDAC mini is turned off when making all digital and speaker connections.

Input

The Input button will cycle to the next input with each push of the button. (Coax 1, Coax 2, TOSLINK, and USB)

Phase

The Phase button will invert to the phase if the recording is out of phase.

Mute

The Mute button will mute the volume to zero, hit the button again and the volume will revert to its previous setting.

Volume

Volume on the Wadia 151PowerDAC mini is controlled with the volume ‘+’ and ‘-’ buttons on the front panel. The buttons maybe continuously held for quicker volume setting. To increase the volume press ‘+’, ‘-’ to decrease the volume.

Using the Remote Control

Mode

Not active

Input

The Input button will cycle to the next with each push of the button (Coax 1, Coax 2, TOSLINK, and USB)

Display on/off

The display button will turn the LCD display on or off

Enter

The Enter button displays current sample rate of digital signal

Phase

The phase button inverts the polarity of the signal

Volume Down

The Volume Down decreases the volume

Volume Up

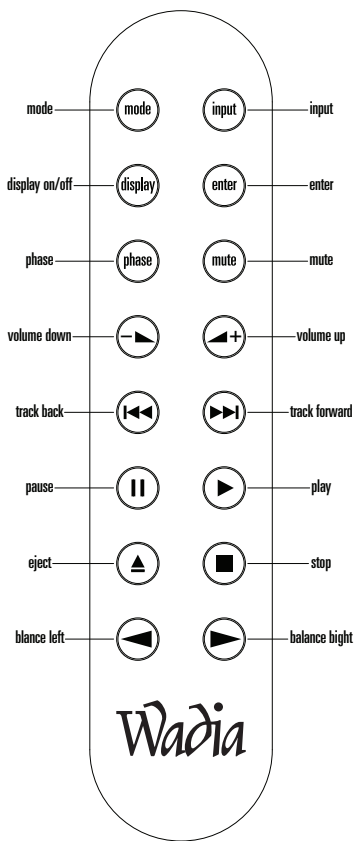
The Volume Up increases the volume

Track Back

The Track Back button skips to the previous track on a Wadia transport

Track Forward

The Track Forward button skips to the next track on a Wadia transport



Pause

The Pause button pause the playback on a Wadia transport

Play

The Play button starts the playback on Wadia transport

Eject

The Eject button cause a Wadia transport to eject the disc inside the drive

Stop

The Stop button stops the play back of a Wadia transport

Balance Left

The Balance Left button causes the sound to the left speaker to be more dominant

Balance Right

The Balance Right button causes the sound to the right speaker to be more dominant

Warranty

This Warranty covers the Wadia 151PowerDAC mini.

Wadia Digital warrants that this product shall be free from defects in materials and workmanship for:

1 year for all parts of the product (excluding batteries).

The warranty period begins at the date of sale and is subject to the following requirements and understandings:

- 1** This is a non transferable warranty.
- 2** The product must not have been modified in any manner whatsoever, or the warranty is immediately voided.
- 3** The product must not have been stored in a humid, damp environment; nor subjected to weather, water, or salt spray.
- 4** During the warranty period Wadia will replace a defective Wadia 151PowerDAC mini with a similar available product, at no cost to the owner for labor, materials, and shipping charges from Wadia.

- 5** Wadia shall not, under any circumstances, be liable for any incidental or consequential damages arising from the loss of property or other damage or losses due to the failure of a Wadia 151PowerDAC mini. Wadia will not pay for loss of use or inconvenience caused by the failure of a Wadia 151PowerDAC mini. Wadia will not pay for damage caused to other audio components caused by the failure of the Wadia 151PowerDAC mini within the limits allowed by State Law.
- 6** The customer is responsible for the shipping charges for all repairs, warranty or non-warranty, shipped to Wadia. Wadia will pay return shipping to the customer or dealer (within the United States) for all warranty replacements. Special shipping methods or services will not be covered by Wadia.
- 7** This product is only warranted in the country of original sale by Wadia.

Specifications

Digital Inputs:

2 Coaxial S/PDIF (RCA), 1 TOSLINK Optical, 1 USB B

Power:

50 Watt/channel 4 Ohm, 25 Watt/channel 8 Ohm

Dynamic Power Rating @ 1kHz:

100 Watt/channel 4 Ohm

Distortion (THS + N):

1kHz@1 Watt: 0.03-0.09%, 1kHz@45 W: 0.11%

Signal-to-Noise Ratio:

-103dB (signal on), -105dB (signal off)

Frequency Response:

20Hz to 20kHz \pm 0.7dB

Power Requirements:

AC 100 – 240VAC, 50/60Hz

Dimensions (HWD):

2.7 x 8 x 8 in., 6.86 x 20.32 x 20.32 cm

Weight:

6 lbs, 2.72kg

Accessories Included:

Aluminum Remote (2 AAA batteries)

Heavy Duty Power Cord

