

# Setup Guide



 **audioengine D2**  
[www.audioengineusa.com](http://www.audioengineusa.com)

Premium 24-bit Wireless DAC

## Contents

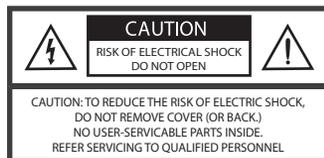
Introduction .....	Page 3
Package Contents .....	Page 3
Cleaning .....	Page 4
Features .....	Page 4
Overview .....	Page 4
Quick Setup .....	Page 6
Pairing .....	Page 8
Troubleshooting .....	Page 8
Specifications .....	Page 9
Contact Us .....	Page 10
About Audioengine .....	Page 10

## Basic Safety Instructions

- Read these instructions for all components before using this product.
- Keep these instructions for future reference.
- Heed all warnings on the product and in the owner's guide. Follow all instructions.
- Do not use this apparatus near water or moisture. Do not use this product near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, near a swimming pool, or anywhere else that water or moisture are present.
- Clean only with a dry cloth and as directed by the manufacturer. Unplug this product from the wall outlet before cleaning.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. To ensure reliable operation of the product and to protect it from overheating, put the product in a position and location that will not interfere with its proper ventilation. For example, do not place the product on a bed, sofa, or similar surface that may block the ventilation openings. Do not put it in a built-in system, such as a bookcase or a cabinet that may keep air from flowing through its ventilation openings.
- Do not install near any heat sources, such as radiators, heat registers, stoves or other apparatus that produce heat.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wider blade or third prong are provided for your safety. If the provided plug does not fit in your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments or accessories specified by the manufacturer.
- Use only with the cart, stand, tripod, bracket or table. When a cart is used, use caution when moving the cart/ apparatus

- combination to avoid injury from tip-over.
- Unplug this apparatus during lightning storms or when unused for long periods of time to prevent damage to this product.
- Refer all servicing to qualified service personnel.
- Servicing is required when the apparatus has been damaged in any way such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- Do not attempt to service this product yourself. Opening or removing covers may expose you to dangerous voltages or other hazards. Please contact the manufacturer to be referred to an authorized service center near you.
- To prevent risk of fire or electric shock, avoid over loading wall outlets, extension cords, or integral convenience receptacles .
- Do not let objects or liquids enter the product as they may touch dangerous voltage points or short out parts that could result in a fire or electrical shock.
- See product enclosure bottom for safety related markings.
- Use Proper Power Sources. Plug the product into a proper power source, as described in the operating instructions or as marked on the product.
- Avoid power lines— Use extreme care when installing an outside antenna system to keep from touching power lines or circuits, as contact with them may be fatal. Do not install external antennas near overhead power lines or other electric light or power circuits, nor where an antenna can fall into such circuits or power lines.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: This device may not cause harmful interference and this device must accept any interference received, including interference that may cause undesired operation.



## Introduction

Welcome to the Audioengine family and congratulations on your purchase of the Audioengine D2 Premium 24-bit Wireless DAC!

The Audioengine team is dedicated to bringing you the highest quality listening experience possible. The Audioengine D2 is designed with the same attention to detail and operational simplicity as all Audioengine products. Our goal is to get you to your music as simply as possible, without all the “gadget tinkering” that other products require.

As with our other past efforts, we thank all our customers and resellers for helping us create another great Audioengine product!

## Package Contents

### D2 Sender

- (1) D2 Sender
- (1) Power adapter
- (1) Detachable power cord, 1.5m (~5ft)
- (1) USB cable, 2ft (0.6m)
- (1) Cloth product bag
- (1) Setup Guide
- (1) Product line brochure

### D2 Receiver

- (1) D2 Receiver
- (1) Power adapter
- (1) Detachable power cord, 1.5m (~5ft)
- (1) RCA audio cable, 2m (~6.5ft)
- (1) Cloth product bag

## Cleaning

Your D2 components are not water-resistant, so it's important that they should be kept free of moisture. You should clean only with a dry cloth or tissue and no liquid cleaners or solvents should be used.

## Features

- Wireless bit-perfect 24/96 digital-to-analog converter
- USB-to-S/PDIF converter (wireless)
- Mac or PC plug-and-play, no drivers or network setup
- Precision re-clocking for low jitter
- USB and optical inputs
- Optical and RCA analog outputs
- Based on Burr-Brown PCM1792 DAC

## Overview

The D2 24-bit Wireless DAC is a simple yet powerful wireless digital-to-analog converter with performance and features generally found only in much more expensive DACs. It can accept USB or PCM-stream optical inputs, and will automatically configure to match the inputs you deliver, with the optical input being dominant. The wireless operation is totally transparent, requiring no special network setup or drivers.



The D2 can process digital audio at any bit depth up to 24 bits, and any sample rate up to 192KHz. The D2 USB input can accept a USB audio stream from your computer or other USB source device. The D2 optical input can accept optical (PCM stereo) streams from any optical (TOSLINK) source, such as computers, TVs, Apple TV, DVD/BluRay players, CD players, etc.

**Note:** Optical sources must be set to PCM Stereo.

The D2 Receiver output can be connected to any gear with an analog (RCA or minijack) audio input, such as powered speakers, stereo system, etc.

The D2 Receiver also includes an optical output, which can be used to connect your own DAC or stereo receiver. Thus the D2 system can act as a wireless USB to S/PDIF converter, as well as a wireless optical link!

Power for the D2 Sender can be provided via USB or the included power adapter.

**Note:** Use only the provided Audioengine power adapter. The Audioengine adapter is specifically designed for maximum audio performance, and the use of other adapters may damage your D2.

**Note:** When using the D2 with the optical output of your computer, the USB port on the computer can provide power. The D2 will sense that an optical input is present and give that input priority.

Internally, USB power is “double regulated” to ensure that no USB bus power variations affect the audio.

The D2 Sender can simultaneously broadcast to (3) D2 Receiver units. See the Pairing section for pairing additional receivers.

## Quick Setup

The following diagrams show the most common configurations for D2 Setup.

**Note:** For maximum range, ensure that both antennae are upright.

### USB from your computer



Step 1 -- Connect the D2 Sender to your computer USB port.

For PC, the D2 should be recognized automatically.

For Mac, under System Preferences/Sound, select "Audioengine D2"

Step 2 -- Connect the analog output of your D2 Receiver to any audio input of your active speakers, stereo, etc.

Step 3 -- Connect the D2 power adapter to the D2 Receiver, and to an AC power source.

### Optical Source



Step 1 -- Connect an optical output of your computer, TV, Blu-Ray, DVD, etc. to the optical input of the D2 Sender.

Step 2 -- Connect the D2 power adapter to the D2 Sender, and to an AC power source.

**Note:** Verify that your source is set to PCM Stereo.

Step 3 -- Connect the analog output of your D2 Receiver to any audio input of your active speakers, stereo, etc.

Step 4 -- Connect the D2 power adapter to the D2 Receiver, and to an AC power source.

**For advanced setup and other tips visit: [audioengineusa.com](http://audioengineusa.com)**

## Pairing

Pairing is the function by which two devices become acquainted. Once a Sender and Receiver(s) are paired, they will remember one another.

**Note:** D2 Senders and Receivers packaged together are paired out of the box, so if you're only using one Sender/Receiver set, no further configuration is needed.

To pair an additional Receiver or to re-pair a Sender/Receiver set, press the Pair button on the Receiver (the Pair LED will blink), then press the Pair button on the Sender. Both Sender and Receiver pair lights should now be solid, indicating that they are paired.

## Troubleshooting

- I have connected my D2 Sender and Receiver as shown, but there is no music output.
  1. Check to see that the Power and Pair lights are lit and solid. If not, try another USB port on your computer.
  2. If the Pair light is blinking re-pair the Sender and Receiver as discussed in the Pairing section.
  3. Verify that "Audioengine D2" is selected as your output device under Control Panel (PC) or System Preferences/Audio (Mac).
  4. Try another USB cable.
  5. Verify that the proper input source is selected on your audio system.
- I have connected my D2 to my TV/DVD/BluRay, but there is no sound output.
  1. Verify that the D2 Sender and Receiver are both connected to a power adapter and that the power lights are lit.
  2. Be sure that your source digital audio is set to "PCM Stereo".

- Only one channel plays through my D2.
  1. Check the RCA cables between your D2 and your sound system.
  2. Check your audio player to ensure that the balance is centered.

## Break-In Period

Your DAC will sound great out of the box and will get better over time. However, give it 40 to 50 hours break-in time before doing any critical listening.

## Specifications

### Electrical

Full Scale Output	2.0V RMS
Frequency Response	10 Hz - 30 kHz, +/- 0.5db
S/N Ratio (DC to 20 kHz)	>115 dB
THD+N (1 kHz FS 96 kS/s)	<0.0015%

### Interface

Input Data Rate	up to 192KS/s
Input Bit Depth	up to 24 bits
USB	type 1.1 or above
Wireless Range (typical)	>100 ft
Power Requirements	
Sender	270ma
Receiver	300ma

For additional specifications and product information go to: [audioengineusa.com](http://audioengineusa.com)

## Contact Us

If you have any questions or feel you may need service, contact the reseller where you purchased your product or feel free to email us directly at: [support@audioengineusa.com](mailto:support@audioengineusa.com) or call toll-free in the United States: (877) 853-4447

## About Audioengine

Audioengine designs and builds innovative audio products with all your music in mind. Great sound, simple but elegant designs, high-quality materials, and truly useful features are what Audioengine is about. We sincerely hope you get as much enjoyment from our products as we've had creating them! For information about our other products go to:

[www.audioengineusa.com](http://www.audioengineusa.com)

## Information for Users on Disposal of Old Equipment [European Union]



**Attention:**  
This symbol is only valid in the European Union.

This symbol indicates that the electrical and electronic equipment should not be disposed as general household waste at its end-of-life. Instead, the product should be handed over to the applicable collection point for the recycling in accordance with your national legislation. By disposing of this product correctly, you will help to conserve the environment and human health that could otherwise be caused by inappropriate waste handling of this product. For more information about collection point and recycling of this product, please contact your household waste disposal service or the shop where you purchased the product. Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

## [Other Countries outside the European Union]

If you wish to dispose of this product, please do so in accordance with applicable national legislation or other rules in your country for the treatment of old electrical and electronic equipment.



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