



# SWD-24 Multi-Subwoofer Driver User Guide

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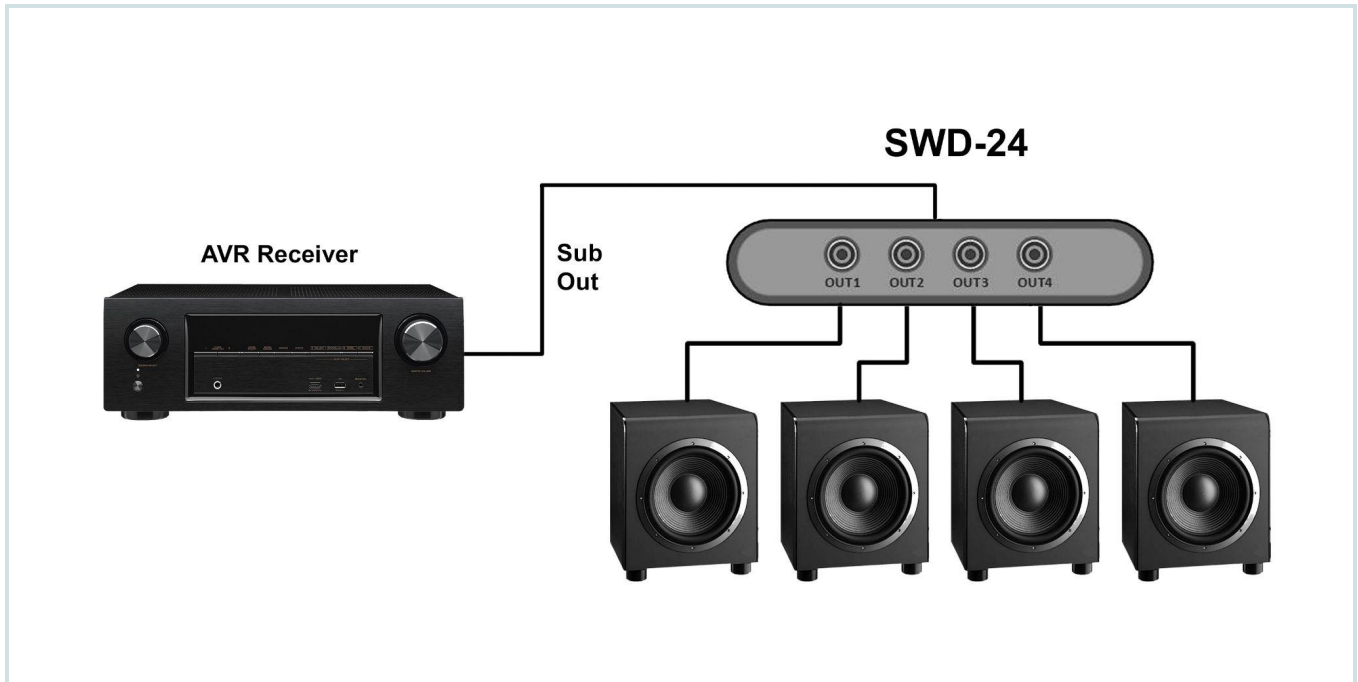
## Introduction

The **SWD-24** is a plug-and-play multi-subwoofer driver for your home theater setup. Without programming and through simple connections, the SWD-24 allows you to immediately run up to four powered subwoofers from your audio video receiver (AVR). This product is intended for

the user who wants a ready-to-go simplified solution, backed by the technical support of Deer Creek Audio.

## 1. Getting Started

Subwoofer placement will be driven by the number of subwoofers in your system, listening room configuration and aesthetics. In general, spatial diversity is preferred. Be sure that all of the subwoofer cables are of good quality, adequate length and securely connected.

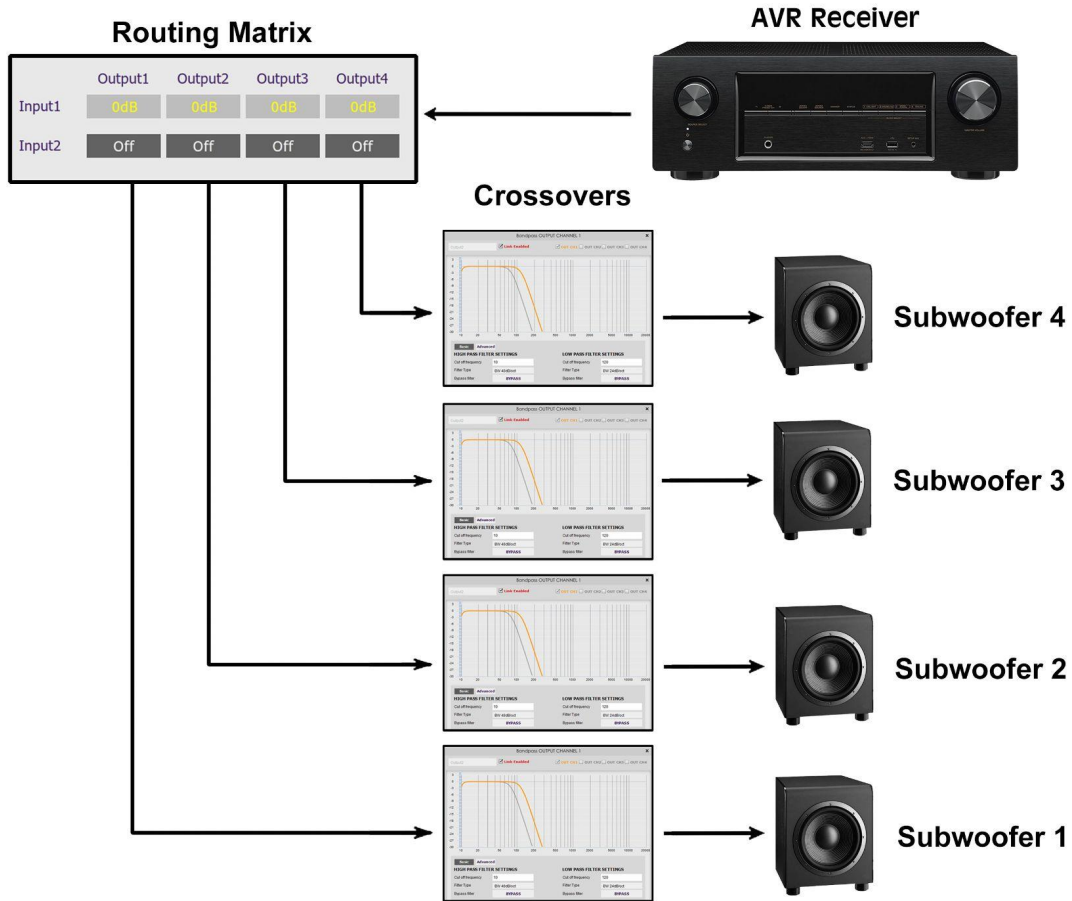


Your subwoofer should be set as below, so as to not interfere with the crossover and parametric equalization (PEQ) parameters that are set up in the miniDSP.

Crossover	Max Hz / off
Phase	0°
Gain	0 dB / mid level / 12 o'clock
EQ / Parametric	Off / bypassed
Parametric EQ	Off / bypassed

## 2. Plug-and-play active subwoofer signal distribution

Shown below is configuration 1: Monaural subwoofer setup 80 Hz. This is most common and how the SDW-24 is configured out of the box, or by selecting configuration 1 from the remote control.

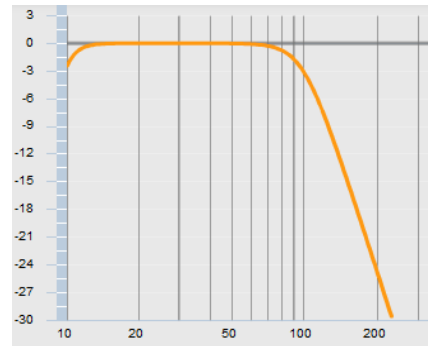


## 3. Four selectable home theater configuration modes

### 3.1 Monaural subwoofer setup 80 Hz

This configuration is used when the AVR is set to 80 Hz and the subwoofer crossover is set to its maximum or LFE.

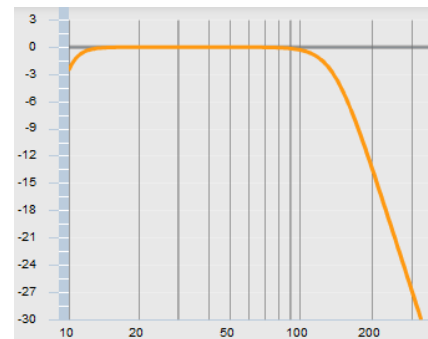
Routing				
	Output1	Output2	Output3	Output4
Input1	0dB	0dB	0dB	0dB
Input2	Off	Off	Off	Off



### 3.2 Monaural subwoofer setup 120 Hz

This configuration is used when the AVR is set to 120 Hz and the subwoofer crossover is set to its maximum or LFE.

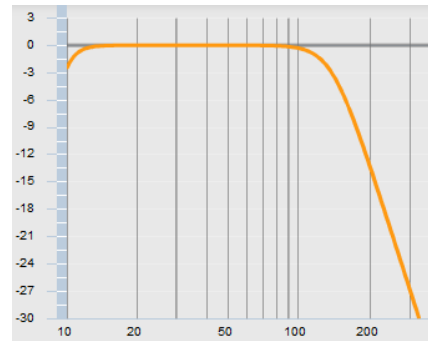
Routing				
	Output1	Output2	Output3	Output4
Input1	0dB	0dB	0dB	0dB
Input2	Off	Off	Off	Off



### 3.3 Dual channel subwoofer setup

This configuration is used in systems with AVRs that have dual independent subwoofer outputs. Input 1 feeds subwoofers 1 and 2, input 2 feeds subwoofers 3 and 4. The SWD-24 low pass filter is set to 120 Hz, so if a lower cutoff frequency is desired, set that on the subwoofer crossover.

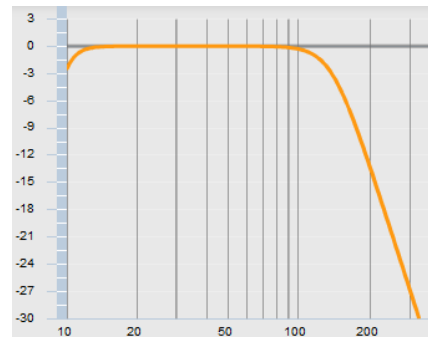
Routing				
	Output1	Output2	Output3	Output4
Input1	0dB	0dB	Off	Off
Input2	Off	Off	0dB	0dB



### 3.4 Dual channel to monaural subwoofer setup

This configuration is used in systems with AVRs that have left and right subwoofer outputs, which will be combined into one virtual monaural subwoofer. The SWD-24 low pass filter is set to 120 Hz, so if a lower cutoff frequency is desired, set that on the subwoofer crossover.









Routing				
	Output1	Output2	Output3	Output4
Input1	0dB	0dB	0dB	0dB
Input2	0dB	0dB	0dB	0dB

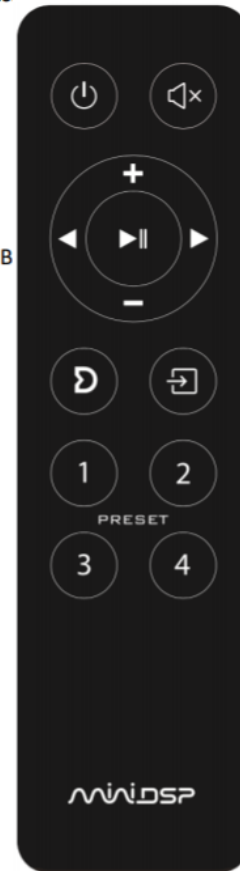


## 4. Selecting inputs, subwoofer volume and configuration modes

The included remote control allows you to select your signal input, typically analog RCA from the AVR/AVP, and the configuration mode for your system. Once in place, these are usually not adjusted further. After the system is configured as above, you may adjust the subwoofer volume based on your program material.

The remote control provided with the processor controls all key runtime functions

-  **Not Used**
-  **Mute**  
Mute and unmute audio output.
- Volume**  
  Reduce or increase the volume. Each press changes the volume in 0.5 dB. Holding down a button will accelerate volume change to 3 dB steps.
-  **Not Used**
-  **Not Used**
-  **Source selection**  
Cycle through the input sources in order:  
  
RCA / TOSLINK, USB,
-  **Preset (1 through 4)**  
Switch to the selected preset. It takes a few seconds for the preset selection to complete, while the processor loads the new filters from its flash memory into the DSP.



## 5. Advanced Features

You can learn more about how to implement the following advanced features by referencing the white paper: [Home Theater Multi-Subwoofer Setup](#).

- Programmable high performance low pass filters
- Flexible parametric room equalization filters
- Programmable time delay correction
- Compatible with REW software and miniDSP UMIK measurement microphone

## 6. What's Included

- [SWD-24](#) Multi-Subwoofer Driver
- IR Remote Control

- Thumb drive with SWD-24 software driver configuration .xml file
- U.S. regulated 12V power supply
- USB cable
- miniDSP plug-in license and REW software link

## 7. Specifications

- Based on miniDSP 2x4 HD
- Distortion < 0.1% THD at maximum input
- Dynamic range: un-weighted > 98dB
- Analog Devices ADAU1701 digital signal processor (DSP) Engine
- Dimensions: 26h x 107w x 94d mm

## 8. Warranty Terms

This product is warranted to be free from defects in materials and workmanship for a period of one year from the invoice date. Warranty does not cover failure of the product due to incorrect connection or installation, improper or undocumented use, unauthorized servicing, modification or alteration of the unit in any way, or any usage outside of that recommended in this manual. Return shipping is the responsibility of the customer.

## Contact Deer Creek Audio

Please contact us with any questions or comments:

[staff@deercreekaudio.com](mailto:staff@deercreekaudio.com)

(720) 726-9272