



EQ901 Elite User Guide

Introduction	1
1. Features	2
2. What's Included	2
3. Typical Installation Examples	2
3.1 Tape / Processor Loop Setup	3
3.2 Preamp / Power Amplifier Setup	3
3.3 Active Subwoofer Setup	4
3.4 Dual Stereo Power Amplifier Setup	5
4. Using the EQ901 Elite Remote Control	6
5. Setting Tone Modes	6
6. Analog Input Level	6
7. Support	7
8. Specifications	7
9. Warranty Terms	8
Contact Deer Creek Audio	8

Introduction

The EQ901 Elite is an ultra high performance replacement for existing BOSE 901 Series I/II, III/IV or V/VI equalizers. The unit provides the BOSE 901 specific equalizer curves with four tone modes that accommodate a wide range of room conditions and recording variations. Designed for use with high-quality pre/power amplifiers or integrated amplifiers and receivers, the unit builds on our EQ901B series with lower distortion, greater dynamic range and higher fidelity, providing audiophile-grade digital signal processors, DACs and analog signal stages.

1. Features

- The EQ901 Elite Series features four specifically designed equalization curve sets unique to each Series I/II, III/IV or V/VI
- Precise 901 equalization is performed digitally in an Analog Devices 400MHz SHARC DSP processor with 24 bit resolution
- Two identical stereo pair outputs are available, allowing for dual active stereo systems (two stereo power amps) or the addition of an active subwoofer(s)
- IR Remote with selectable tone mode settings:
 - Normal mode
 - Enhanced mode
 - Warm mode
 - Low frequency reduction mode
- Ultra low distortion 2.0 Vrms output driver stage
- Selectable input sensitivity of 2.0 Vrms or 4.0 Vrms

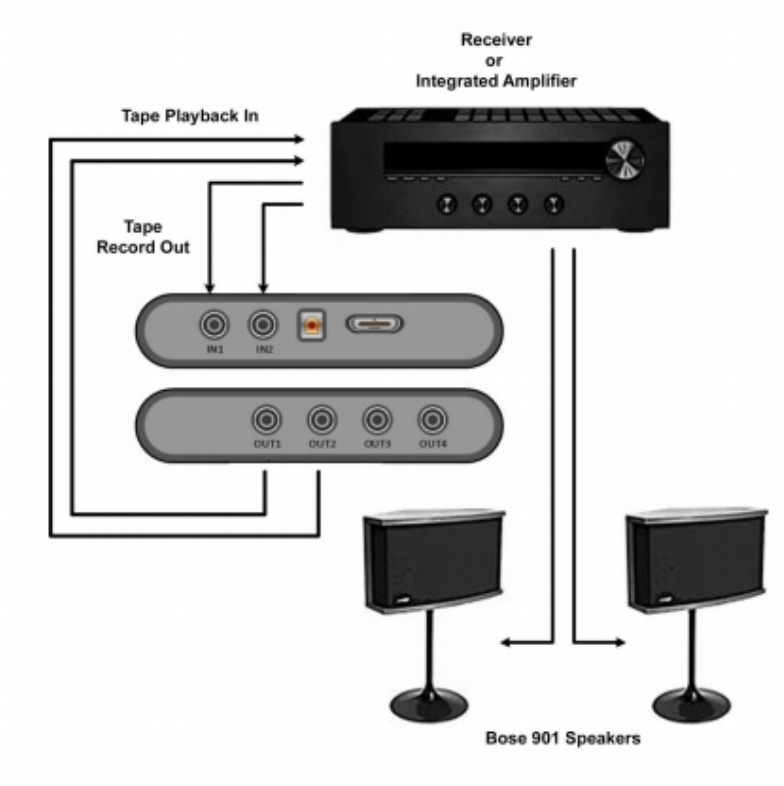
2. What's Included

- EQ901 Elite equalizer for BOSE 901 Series I/II, III/IV or V/VI (select your series when ordering)
- Four precision engineered tone mode equalization curves
- IR Remote Control for tone mode selection
- External power supply

3. Typical Installation Examples

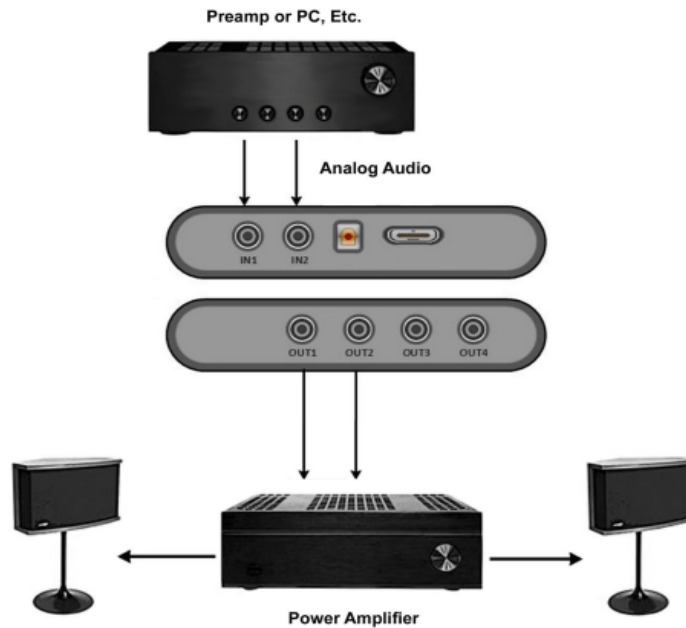
Analog audio input and output connections are made directly to the RCA input and output jacks. For RCA connections, #1 is Left (L) and #2 is Right (R). **When making these connections, make sure to power off the equipment being connected.**

3.1 Tape / Processor Loop Setup

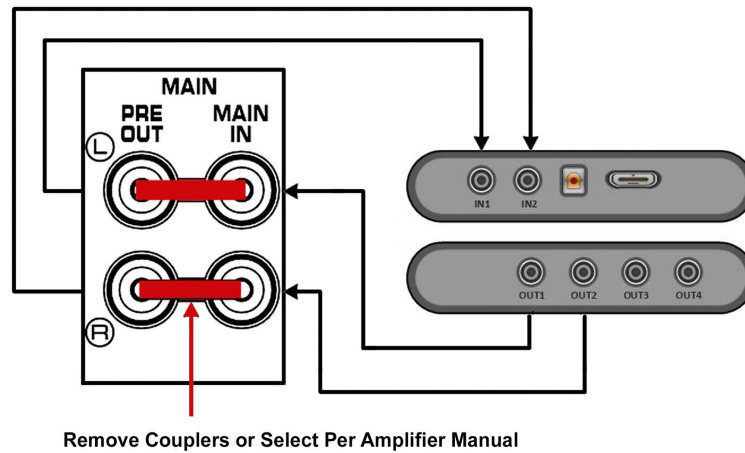


3.2 Preamp / Power Amplifier Setup

This example shows a typical connection between a preamp and power amp.

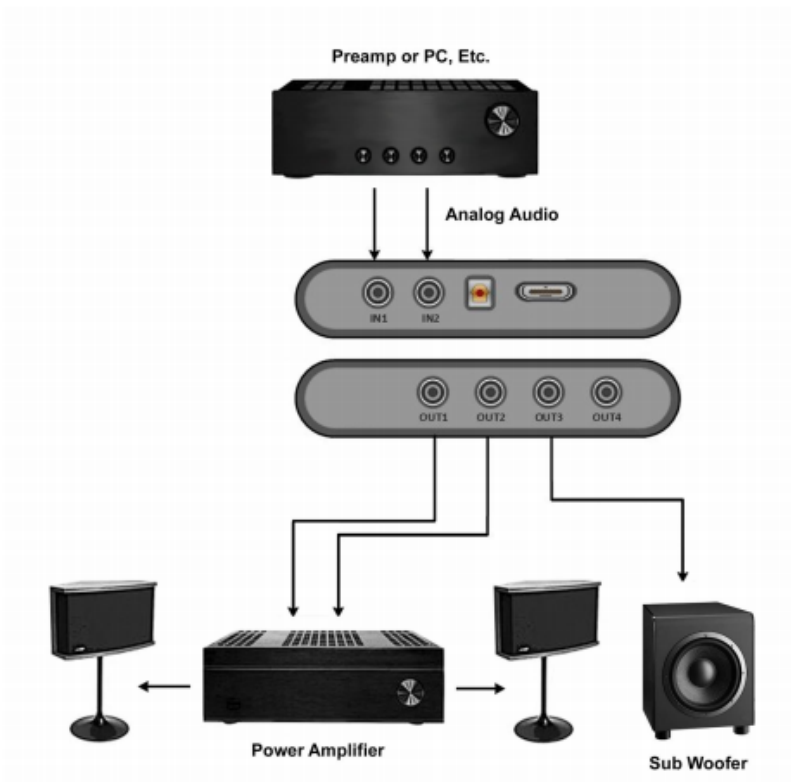


If you have a receiver or integrated amplifier with a pre-out / main in loop, you can insert the EQ901B as shown below.

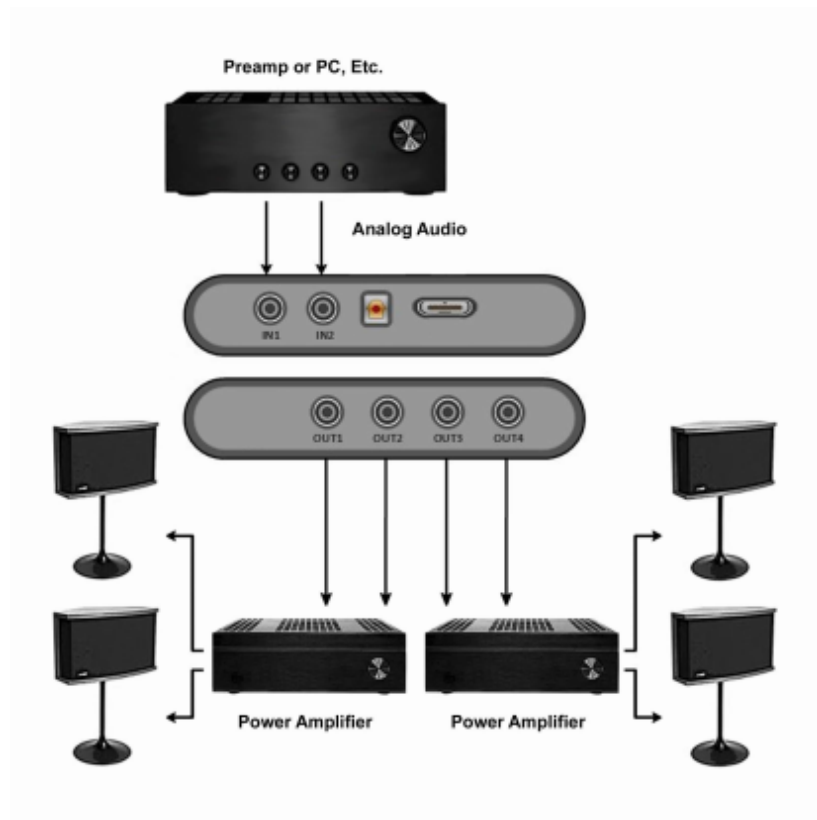


3.3 Active Subwoofer Setup

The two unused outputs connect to your subwoofer L and R line inputs. The subwoofer controls can then be adjusted to your preference.










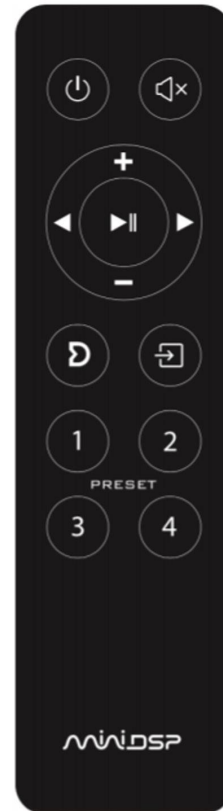
3.4 Dual Stereo Power Amplifier Setup



4. Using the EQ901 Elite Remote Control

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

	Not Used
	Mute
	Volume
	Not Used
	Not Used
	Source Selection Analog, RCA, TOSLINK, USB
	Preset (1 through 4) Switch between the four preset tone modes.



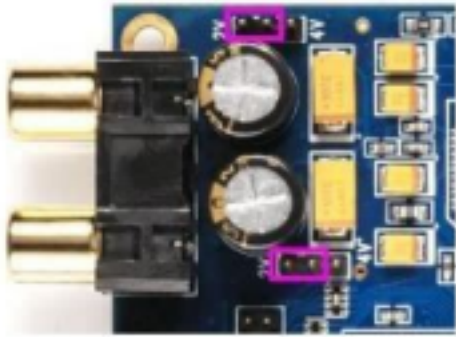
5. Setting Tone Modes

Selection of the tone mode is generally a subjective choice based on what sounds best to you. Specifically: Normal mode is the most neutral, Enhanced mode provides a tighter sound, Warm mode adds midrange with slight treble reduction and Low Frequency Reduction mode is intended to control bass in smaller rooms or on boomy recordings.

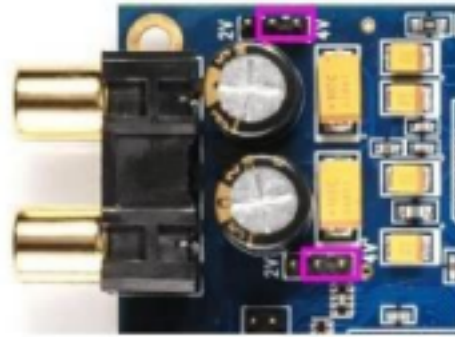
6. Analog Input Level

The analog audio input levels are switchable between 2.0 Vrms and 4.0 Vrms to accommodate use with most equipment. The EQ901 Elite is shipped with the analog input level set to 2.0 Vrms. The only user-accessible jumpers are used to set the analog input sensitivity. The jumpers are located on the internal PC board near the RCA input jacks.

2 VRMS sensitivity



4 VRMS sensitivity



7. Support

- 30-day 100% satisfaction guarantee
- Installation guide and phone support
- One-year full replacement warranty (see below for specifics)
- Deer Creek Audio is an authorized miniDSP dealer

8. Specifications

- EQ901 Elite platform base: miniDSP 2x4 HD
- Digital Signal Processor Engine: Analog Devices Fixed Point DSP SHARC ADSP-21489
- Digital to Analog Converter (DAC): AK4626A
- Internal Processing Resolution and Sample Rate: 32 bit / up to 192 kHz
- Audio Input / Output Connectivity: Unbalanced Output, RCA
- Input / Output Max Levels: In 2.0 Vrms / 4.0 Vrms (jumper-selectable), Out 2.0 Vrms
- Input Impedance: 10 k Ω
- Output Impedance: 560 Ω
- Filtering Technology: FIR + I/IIR
- Dimensions: 27 x 119 x 107 mm
- Power: 12V DC Single Supply, 2.1 mm Round Plug, 2.5 Watt
- IR Remote: miniDSP Remote

9. 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

720.726.9272