

- ▶ **Ultra High Quality Amplifier in a Small Box**
- ▶ **Pure Digital PWM Amplifier Technology**
- ▶ **Powerful Performance with Stable Circuit Design**
- ▶ **Durable and Compact - Fits in the Palm of Your Hand**
- ▶ **Enjoy 2-Channel High Fidelity Audio from Any Source**
- ▶ **Customize with User switchable OPAMP (Sold Separately)**
- ▶ **Full Package Including Speaker Cables and More**



Features

- Mini integrated (pre + power) amplifier
- Preamp : Switchable OPAMP 5532, jumper selectable 3 dB gain increase
- Maximum output: 30 Watts @ 4 Ohm
- Support most passive speaker with 4~8 Ω impedance
- THD + N: 0.045 % @ 10 Watts 4 Ohm
- Dynamic Range : 98 dB

Why Dr. AMP?

- When you need better amplification for your audio system
- When you don't have space for an oversized power amp
- When you would like to replace the noisy analog amp
- When you add more speakers to upgrade the Home Theater
- When you need a versatile amp with switchable OPAMP

How Dr. AMP works?

Dr. AMP is a value priced digital amplifier that uses the latest PWM (Pulse Width Modulation) amplifier technology. This mini amp takes input from a regular MP3 Player, CD player, MD player, Sound Card, and any audio system. Once the signal is converted to digital pulse, it's amplified using the PWM amplifier inside, and the output signal for the speakers is produced. The advantages of PWM amplifiers compared to the traditional linear amplifiers are: efficiency close to 90%, high efficiency translates to lower internal power loss, no heat sink space, and reduced overall physical size. Dr. AMP is suitable for monitoring, playing games, music and any kind of audio source at the quality of professional audio systems.

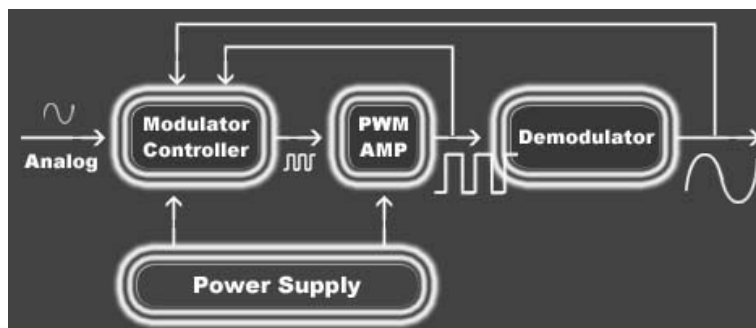


Fig 1. The basic concept of amplification used in Dr. AMP.

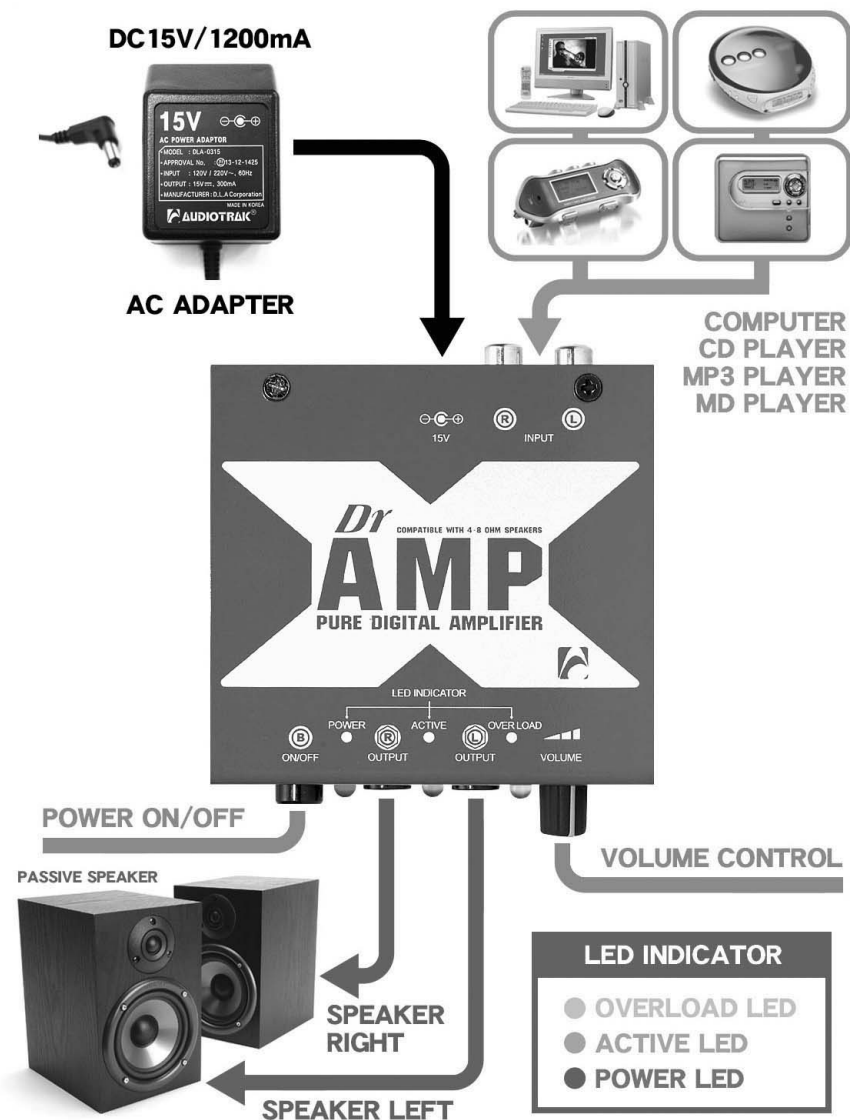
Selectable OPAMP-based preamp (OPAMP sold separately)

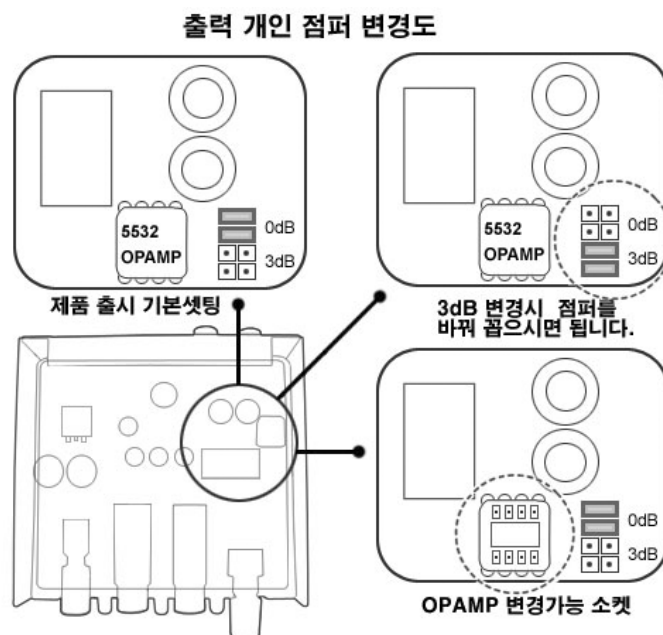
DR. AMP features a socketed OPAMP which enables the user to replace it with a different OPAMP of choice for a variety of output characters. Dr. AMP is compatible with most speakers for general audio, HiFi and A/V systems. By adding and changing diverse OPAMPs, Dr. AMP will be the multi-faced universal preamp.

High-efficiency and High-fidelity digital amp

Dr. AMP uses the Tri-path amplifier IC and benefits from the latest audio amplifier technology. The small Dr. AMP box fits in the palm of your hand yet delivers clean and 'Audiophile' quality stereo sound on your favorite pair of passive HiFi speakers. To maximize the stability, the electric circuit of Dr. AMP generates constant voltage of 12V by transferring it from the 15V input. The self powered stand-alone box also means less noise introduced by interferences. It's a digital amp: no sound means no signal and no hiss. This small box is for everyone, [including] Hi-Fi enthusiasts.

Connection





- Factory default set
- Change the jumpers to set 3dB gain
- [The OPAMP socket]

Specification

- MAX Power : TOTAL 30W (15Watts X 2 Channel) @ 4 Ohm
- Dynamic Range : 98dB
- THD + N : 0.045 % @ 10 Watts 4 Ohm
- Efficiency : 88% @ 10W 8 Ohm, 81% @ 15 Watts 4 Ohm
- Power Adapter : 15V 1200mA (Internal 12V)
- Size : 20H x 90W x 90D (mm)
- Preamp : OPAMP 5532 (Switchable), 3dB gain increase by jumper settings
- Case : EGI, Electrolytic Galvanized Iron

Package

- One (1) Dr. AMP
- One (1) 15V AC 1200mA power supply
- One (1) stereo RCA to RCA cable (1.5M)
- One (1) stereo RCA to 1/8" stereo jack cable (1.5M)
- Two (2) 1/4" cable
- Owner's manual

Warning (Important)

1. The "OVERLOAD" led indicates if the signal level of this device is near reaching its distortion. Turn down the volume immediately. Damage to the equipment will occur if this led is constantly on for more than 30 seconds.
2. Connect only passive speakers (4~8 Ω). The self powered active speakers should not be connected.
3. Use only 15V AC, 2A power supplies came with the device. Do not use any power supply with more than 18V AC.
4. This device should not be used as a MIC preamp or Guitar preamp.
5. Please turn the power off when not in use.