

Audvance EQU-1 optical equalizer

Thank you for purchasing your own Audvance EQU-1 optical equalizer. The EQU-1 is all you need for an extremely transparent and neutral sound, exposing all recording details in a wide and deep stereo image. The EQU-1 has separate supplies with active filtering for cartridge LED's, cartridge photo sensors and amplifier sections. The amplifiers are built around single ended class-A FET circuitry without overall feedback and using first quality components.

Safety notes

The EQU-1 equalizer should be used with 240V/50Hz mains only.

Avoid liquids from entering the cabinet.

Make sure that ventilation holes on bottom and top side are not blocked for airflow.

Do not open the cabinet when it is connected to the mains voltage.

Specifications

- Mains voltage: AC 240V/50Hz only
- Input impedance: 10 K Ω
- Minimum output load impedance: 10 K Ω
- Output level: 400mV RMS (RCA) or 800mV (XLR) (1kHz)
- Harmonic distortion: <0,15 % (1kHz, 70mV RMS input)
- Frequency response: 4Hz-300kHz (-3dB) (subsonic filter off)
- Subsonic filter: 15Hz (-3dB) (second order)
- Dimensions 45x38x11 cm, transport box 50x50x21 cm

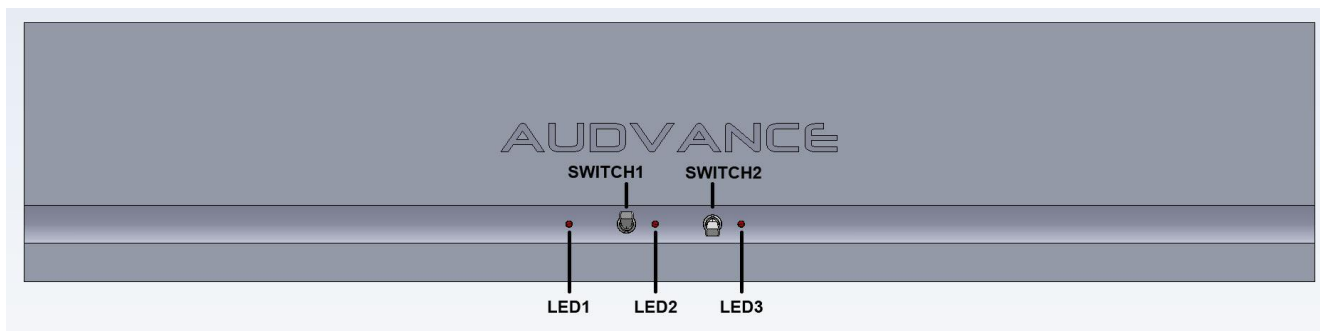
Break-in

The sound of the EQU-1 will improve in all areas after several hours of use. The sound will open up and the bass will become stronger and tighter.

Importance of clean plugs

Since DC-currents flow through the interconnects between the EQU-1 and your turntable it is important that you clean the contacts of both regularly.

Front side of the cabinet



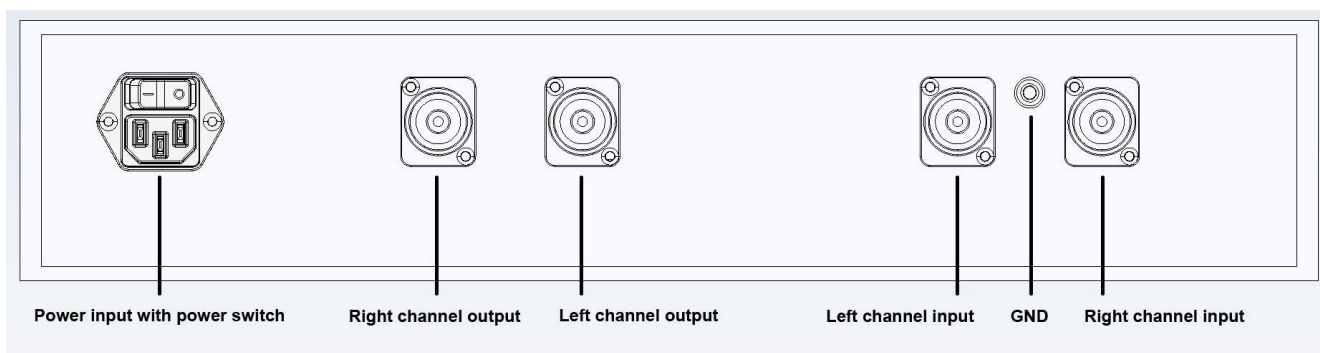
Three LED indicators are on the front side:

If LED1 is on, mains power is present and the mains switch on the rear is on. The outputs are automatically muted when power is turned on or off. On power up the outputs will be muted for about 4 seconds.

If LED2 is on, cartridge power is present and the front LED of your DS Audio cartridge is on as well. Switch1 controls cartridge power. It can be operated anytime without clicking noises coming from your speakers.

If LED3 is on, the subsonic filter is **off** and you are warned by this LED. Switch 2 controls the subsonic filter. Leaving the subsonic filter off can be dangerous with warped records or records with subsonic content. Woofers can be damaged due to excessive excursion of cones. Best is to leave LED3 off at all times with activated subsonic filter.

Rear side of the cabinet



Above the mains entry you find the mains power switch. The EQU-1 can be left on permanently for maximum sonic performance. The order of left and right inputs is different from the outputs. Please note this when making connections. This is done to have equal internal wire length for both channels. The outputs can be RCA or balanced XLR on request. The GND pin can be connected to the tonearm of your turntable for lowest hum.

Balance level calibration

The EQU-1 is pre-calibrated to have matched levels at 1kHz for both channels. If you would like to have perfect balance of the complete system including your optical cartridge and you have a test record to produce equal levels on both channels you can adjust a trimmer to adjust this. This trimmer is on the inside, so you will have to remove the top panel to do this. While playing the record measure the level on the left channel output. Now measure the level on the right channel output and adjust the trimmer for a level that equals what you measured on the left channel.