



Unbalanced microphone pre-amplifier, with lead acid batteries, with the latest developments in improved sound quality.

This pre-amplifier is especially designed for the Sonodore microphone RCM-402. The pre-amplifier is 'unbalanced' to avoid the negative effects (different kinds of distortion) that occur in balanced circuits. This pre-amplifier runs on batteries what results in huge sound improvements. It uses Mundorf silver/oil capacitors, Siltech cable, selected metalfilm resistors and a part of the circuit is built without printed circuit board. The result is a very high sound quality.

Technical Specifications

- Frequency response: 4 Hz to 1MHz (-3dB)
- THD+N: 0.0001% at 0dB gain 0.001% at 53dB gain (at +14dBu, 20Hz to 20KHz)
- Equivalent input noise: 0.29 μ V at 53dB gain 1,8 μ V at 0dB gain (A-weight)
- Slew Rate: 20V/ μ S
- Crosstalk: >75dB at 0-10KHz
- Maximum output level: 8,5V ,+21dBu
- Output impedance: 56 Ohms
- Maximum output current: 50mA
- Input impedance: 22KOhm unbalanced
- DC offset : < \pm 2mV
- Cable drive capability: > 100m
- Gain: 0 to 53 dB (0 dB, 15 dB, 30 dB +0 to 23dB in 1dB steps)
- Number of channels: 2, 3, 4, 6 or 8
- Input: 4-pin XLR female connector (unbalanced, without transformer)
- Output: 3-pin XLR male connector (balanced, ground compensated)
- Charger power requirements: 105-120V and 210-240V, 50 to 60 Hz
- Dimensions 2-4 ch version: 30,5cm \times 23,5cm \times 7cm (12" x 9.3" x 2.7")
- Option: 2 steps HP filter (every value between 20 and 150Hz)

Battery

- Type: lead acid battery
- You can't replace the batteries, they are fixed
- Max operating time, full battery: 24-32 hours
- Operating time after 1 hour charging when batteries are empty: 6 hours
- Battery fully charged in 20 hours
- For max life span of batteries: it's wise to stop charging after 1 day
- Battery life: probably 10 years
- The export version has a separated battery box

Note

- With respect to the noise, only modified Sonodore RCM-402 and modified active microphones with 4-pin XLR connector can be used