The T310 Microphone Amplifier is a very high quality mono unit, specially designed for ultra low noise recordings. Best result is obtained by proper selection of the connected microphone. All circuits are developed for professional use and the T310 is therefore ideal for all kinds of audio.

On the front the balanced Mic Input XLR connector is located along with the Phantom Power On/Off Switch. A yellow LED indicates 48V Phantom Power present.
The red LED monitors clipping (O/L, overload) in the gain stage, and will illuminate at levels 6 dB below actual clipping will take place. The gain is adjusted on the 12 step gain switch giving a range from +9 dB to +73 dB.
Trim controls the output stage and is adjustable +/- 5 dB.
Balanced output and main power connection are placed on the rear of the T310.

The basic principle in this microphone amplifier is to treat the sensitive microphone signal in the best possible way. Therefore a transformer input stage is chosen due to its perfect common mode rejection performance, which means that it perfectly sorts out all signals not coming from the original microphone signal. It is in this critical first stage that most manufacturers of “similar” but more ordinary commercial products most often choose cheaper solutions as the transformer input stage is quite expensive.

A very user-friendly benefit is the low output impedance of the T310. This means that the unit is capable of driving multiple parallel receiving inputs (e.g. Multitrack inputs or Desk inputs) allowing you to avoid time consuming cross patching.

Note that the T310 contains fixed High & Lowpass filters calibrated to deliver very clean and smooth audio without sub frequencies and with no HF interference. The filter tilt is 12 dB/ Oct. and cannot be disconnected.

The output stage is electronically balanced, but performs like a transformer in order to match the gain structure. In true balanced environments no further precautions are necessary.

Technical Data :

Input Transformer	:	Lundall LL 1528
Input Impedance	:	1000 Ohm
Input Symmetry	:	> 100dB
Signal / Noise Ratio	:	- 124 dB
Gain Range	:	+9 - +13 dB
Trim Range	:	+/- 5 dB
Hi-pass	:	> 35 Hz
Lo-pass	:	< 25 KHz
Distortion (1KHz)	:	0,002 %
Linearity	:	0,6 %
Output Impedance	:	< 30 Ohm (Servo control)
Output Symmetry	:	> 100dB
Power Supply	:	200 - 240 VAC, 50 Hz (50mA)