

PhonoOne

PhonoOne has been one of the mostly appreciated **UnisonResearch** units. Even if the production of this item has been discontinued some years ago the request never stopped so we decided to renew and improve this design.

Nothing has changed in the external looking since the original design was so nice and timeless that even after many years it has its untouched aesthetical appeal.

The circuit implemented has lots of features in common with the **SimplyPhono**, here one more tube has been used, bringing up to 10 the number of triode (i.e. 5 ECC83/12AX7 double triodes).

All of the gain stages are now implementing parallel configuration for the best noise and distortion performances.

This solution increases also the overall gain to approximately 54dB, enough for all the MM and most of the MC cartridges.

The same passive RIAA network has been adopted but with special selected components in order to ensure strict tolerance to the equalization curve.

Increased value for the output capacitors improves bandwidth and phase rotation at low frequencies.

In order to avoid the problem of dc voltage and bump during the warm up and switch off time of the unit a delayed muting function has been implemented, this way the output is disabled till the tubes reach their optimal temperature and working point at the switch on and prevent the loud bump at the switch off.

While in **SimplyPhono** only the resistive component of input impedance is selectable here both resistance and capacitance can be matched to the requirement of any cartridge for best performances.

A dedicated free location on the PCB allows the installation of custom value resistors in order to set the interface parameters even at any non common value.

Particular care has been dedicated to power supply design.

In order to minimize cross-talk and inter-stage interference an independent RC filter cell has been placed near every gain stage, thus reducing the cross-talk (especially at low frequency) of more than 20dB in comparison with the extraordinary performances of **SimplyPhono**. In the new **PhonoOne** low frequency cross-talk is practically immeasurable, less than -90dB.

Also a careful layout design improving channel separation and interference rejection, together with an elastic suspension of the amplifier board helped bringing the sonic performances of the new **PhonoOne** to a supreme level of natural detail and musical clarity.

As imposed for a no-compromise design, all the supply voltage are regulated and heavy filtered.

Nothing has been neglected: all the signal wiring are hand soldered using shielded wire, the placement of the tubes takes care of the mechanical micro distortion of the physical parts of the tubes when operated in horizontal position, oversized power components and adequate cooling ensures high reliability.

We are sure the new **PhonoOne** will be highly appreciated by anyone looking for a phono preamplifier able to offer an involving listening experience.

Technical characteristics

Valve complement:	5 x ECC83/12AX7
Amplification class:	pure class A
Negative feedback:	zero
Gain:	54dB approx.
RIAA:	passive
	0.1dB tolerance
Input impedance:	47k Ω , 100 Ω , 47 Ω , 20 Ω 100pF, 200pF, 320pF, 420pF any custom value
Dimensions:	14.7in x 2.3in x 9.7 in
Net weight:	8lbs

