Privilege Preamplifier

Technical Specification

ORPHEUS MEDIA SARL – Avenue des Sciences 3 – 1400 Yverdon-les-Bains - Phone : +41 24 423 90 88 – Fax : +41 24 424 90 89
Email : info@orpheuslab.com – Website: www.orpheuslab.com

The chassis has been carved from 100kg cast aluminium block. The Neutrik audio connectors and Cardas have been welded below the PCBs, in order to be compatible with the design because the amplifier electronics have been mounted upside down.

The front consists of a high intensity LCD display, a ring of blue LEDs displaying the general volume level, a small window allowing a signal with the IR receiver and a rotary encoder (located in the center).

The encoder is the latest optical encoder left in Elma. It can intuitively control all functions of the unit's volume control from the configuration options.

Supply

The power cable coming from the input terminal is filtered and completely shielded and the electronics insulated from audio disturbances. Hence we use two 48VA transformers, one dedicated to feeding the sound card and the second feeding the control electronics and user interface. Power for the audio track is drawn from the power supply for the analog part.

After its rectification, the voltage passes through a portion of the switching power supply which is then regulated to obtain a stable high quality. The power to the digital audio is provided by a battery controller for proper operation. The second processor regulates the current applied to the front. All the power cables have been separated from the data cables and anchored to the bottom of the housing.

Pre-Amp

This preamp is not a simple evolution of the Orpheus Classic Line Two. Our engineering expertise of different disciplines has enabled us to keep the spirit of the Orpheus Two and in the design of this new preamp. 4 RCA inputs, 2 XLR inputs, a monitor input, monitor output, 2 XLR and 2 RCA outputs. The entire signal path has been designed to promote balanced use of XLR cables, a result of which is the requirement of more electronic components.

We use very high quality Vishay resistors on the important point on the signal path. The preamp operates two digital volume controls Wolfson (1 per channel). It also has a loop reaction against removing the analog level (DC).

MCU

The switching relays, the signal routing as well as all other functions are controlled by a latest generation microcontroller. It includes a USB type B port for the update of the device without the need of opening it.

The MCU can also control the brightness of the LCD screen as well as the power the blue LEDs. Moreover the Pre – Amps has also 4 trigger outputs to control the amplifiers.