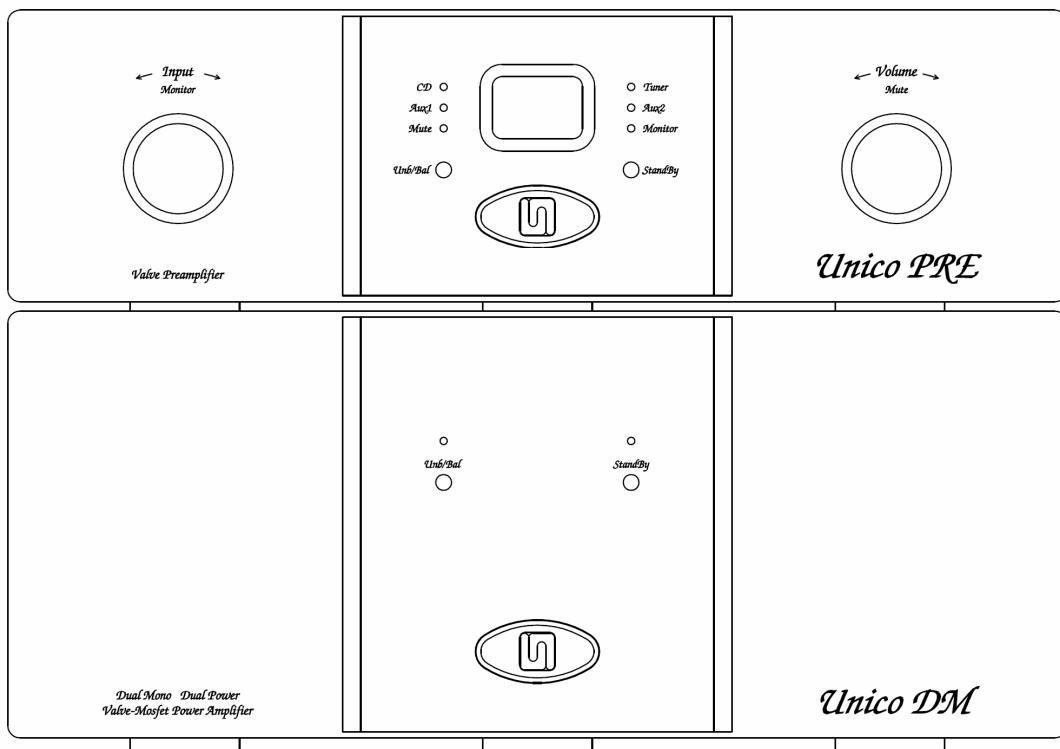


Unison Research
is proud to introduce

the new
UnicoPRE and UnicoDM



The believers of the Italian brand will remember that the catalogue of *UnisonResearch* already offers a preamplifier and a power amplifier with the same names. These two new devices inherit from their ancestors not much more than the name. They bring new features and new solutions, representing a real evolution rather than a simple restyling or update.

The last *Unico* series two-chassis amplification solution takes obviously place in the top level where the most prestigious representative is the *Unico200* recently joined by *Unico100* and *UnicoCDE*.

With these new products the catalogue of the Italian manufacturer grows up and approaches that completeness without excess that allows the customer to find the most appropriate solution with pleasant ease.

UnicoPRE

UnicoPRE is a hybrid stereo preamplifier with a *quasi-dual-mono* and fully balanced configuration, designed with the aim of giving the best performances, a perfect integration with every audio system and the maximum versatility.

The *quasi-dual-mono* configuration is well represented by the connectors layout on the rear panel. For every input both the balanced XLR and the single-ended RCA connection can be selected via a front panel push button, the microcontroller will automatically recall the customer preset at every input selection. The audio signal connections are completed by one XLR and two RCA output (one of these allows the customer to set the relative phase and to reduce the level in order to match every need for feeding an extra power stage or a subwoofer). Tape-monitor loop and remote switching for **UnicoDM** are also available via the connectors on the rear panel.

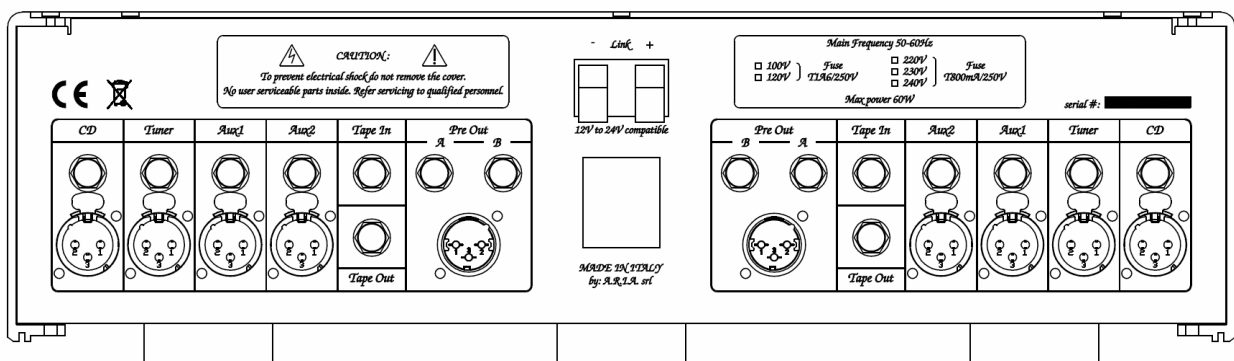
All the audio circuits are designed in a *dual-mono* structure, the channels are separated physically and electronically each one with its input selection stage, its own volume control board, its own amplification and power supply special-design circuit.

The volume control stage is designed around a stereo digitally controllable analogue attenuator (one per each channel!). **UnisonResearch** technical staff developed an original circuit, fully balanced volume control (also for single-ended signals, since we treat the input ground as an input) that ensures the best performances in matter of precision, balance, linearity and noise.

The amplification stage and the output stage are designed in a balanced configuration too, operating in pure class A.

The power transformer, non critical power supply and digital control circuit are enclosed in a dedicated department of the chassis, far from the signal path and shielded by a wide electromagnetic screen.

Every function is managed by a microcontroller loaded with a firmware developed in **UnisonResearch** laboratories. The user interface follows the new trend firstly implemented in **Unico100** and based on the use of high quality ALPS encoders for input and volume selection and on a seven segment display for a perfectly clear volume level indication.



UnicoDM

UnicoDM is a *dual-mono* hybrid power amplifier designed to work both in stereo and in mono mode.

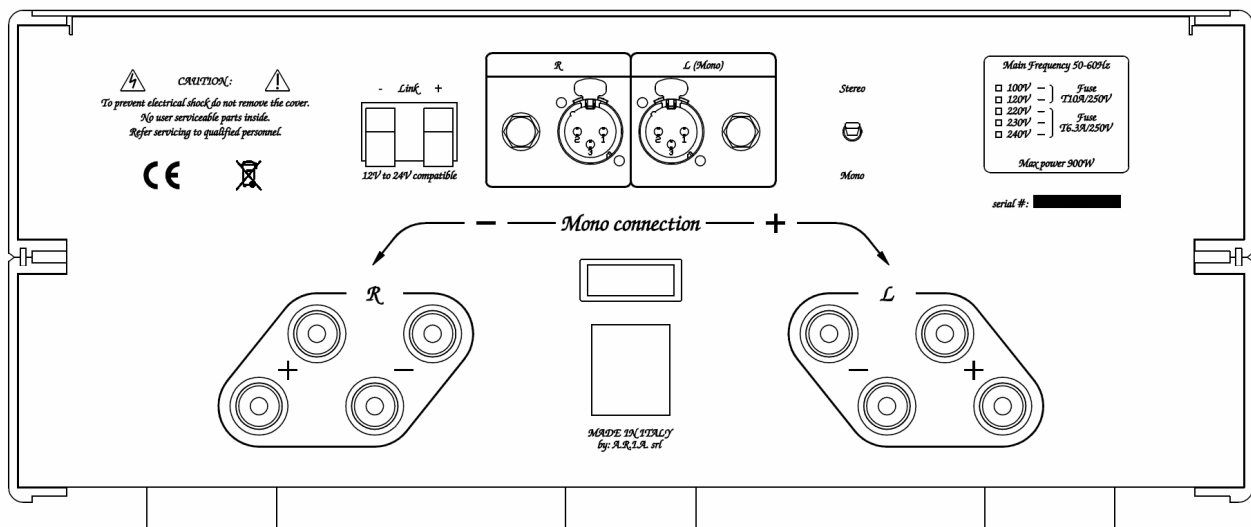
The massive and well proportionate looking reflect an accurate internal layout developed around the impressive couple of toroidal power transformers and the over-sized heatsinks; the clear but not empty, agreeable but not ostentatious face seems well appropriate for a “simple” power amplifier, reliable, complete and generous.

Compared with the previous model **UnisonResearch** technical staff increased the number of output devices, the dimensions of the heatsinks (now placed inside the chassis for a nice looking) and the power handled by the power transformers. The internal layout has been completely revisited and improved with great care at the signal path, at the grounding layout, at the high current output connections.

Input connection is available both via XLR and RCA plugs, these are two really independent input and can be selected using a front panel push button. Selection is operated by a sealed micro relay placed near the connectors for the shorter signal path, tube preamplifier stage is nearby too.

An accurate project allowed the designers to place the power stage and dedicated power supply very close to the output binding post. This is an essential feature when you manage to run the device in mono mode delivering over 650W on 8 ohm without the problem that such a high current can cause on a poor designed circuit.

A trigger link allows the customer to switch on the **UnicoDM** from standby mode to operate mode by simply acting on **UnicoPRE** (o another source offering an active-high trigger from 12V to 24V).



Technical characteristics

UnicoPRE

Frequency response:	flat @ 10Hz – -0.2dB @ 100kHz
Input stage:	Pure class A Balanced tube stage (ECC82/12AU7)
Output stage:	Pure class A Discrete solid state buffer
Input connectors:	4+1 unbalanced, 4 balanced
Output connectors:	1 XLR, 1 RCA (fixed), 1 RCA (phase selectable)
Dimensions:	17in x 7in x 5.1in
Net weight:	25lbs

UnicoDM

Power output:	160W RMS continuous on 8 Ω (stereo) 650W RMS continuous on 8 Ω (mono)
Frequency response:	flat @ 10Hz – -0.1dB @ 100kHz
Input stage:	Pure class A Double tube stage (ECC82/12AU7)
Output stage:	Dynamic class A Triple POWER MOSFET complementary pair
Input connectors:	1 unbalanced, 1 balanced
Output connectors:	4 + 4 per bi-wiring
Power consumption:	900W max
Dimensions:	17in x 7in x 17.3in
Net weight:	55lbs