

**NAGRA**PL-L  
Class A tube preamplifier



Where begins the way to sonic perfection

**NAGRA**

innovationprecision



#### Uncompromised design

To minimize the effects of microphonic noise due to vibration of the tubes, the main circuit board is mounted on elastomer dampers. The board itself as well as the internal jumpers are gold-plated to further improve sound quality. This reflects the attention to every detail that allows Nagra equipment to achieve ultimate performance.

#### Relaxed listening convenience

The PL-L comes with Nagra custom remote control, the RCU. You may sit in the "sweet spot" and enjoy your music while keeping full control of your system at all times.

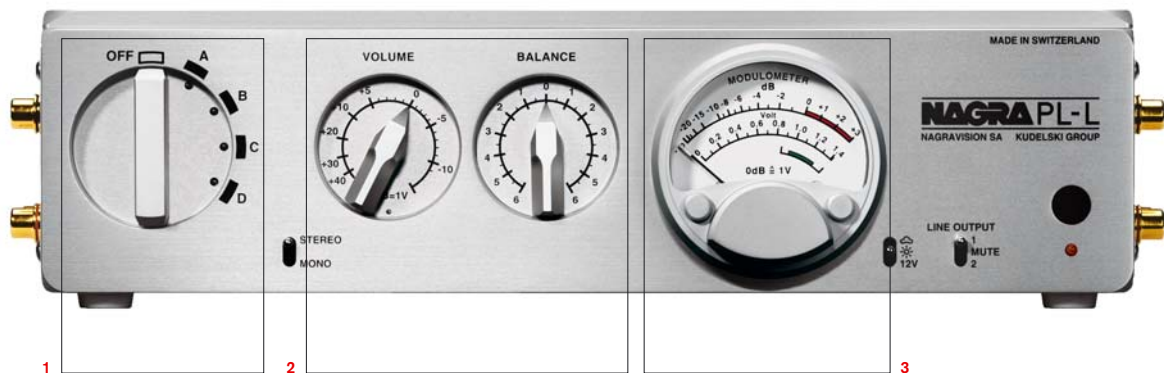
#### Audiophile approach to the remote

Some will admit that a remote control is really convenient, some will say mandatory. On the other hand, it should not affect the audio quality. That is why the PL-L features an "audiophile remote control". Direct motors are implemented on the volume and balance potentiometers, so the action of the remote remains purely mechanical. This is the most elegant way to control the volume and balance. The RCU can also control other Nagra equipment.

# performanceemotion

- 1 Main rotary switch**  
The six-position rotary switch allows selection of input sources, remote control as well as ON and OFF
- 2 Volume and balance potentiometers**  
Controls the output level gain for both channels and permits to balance the right and left channel in a range of  $\pm 6$  dB

- 3 Modulometer**  
The Nagra-made modulometer provides a multitude of indications through two coaxial pointers



## Elegance and beauty

The PL-L is a pure Class A vacuum tube preamplifier, based on the proven design concepts of the world-renowned PL-P, Nagra first Hi-Fi preamplifier. The PL-L ignores compromise to provide ultimate performance. It has received numerous awards, and is considered by many as one of the finest line preamplifier in the world.

## Audiophile's preamplifier

The PL-L reflects a purely audiophile approach: purity of sound, respect of the signal, uncompromised design and manufacturing. The jewel-like machined anodized aluminium case features:

- Superior grade selected tubes
- Nagra Modulometer
- External power supply
- Remote control
- Nagra legendary reliability

## Nagra Modulometer

The Modulometer is an accurate level indicator developed by Nagra to equip its recorders. The Modulometer provides a multitude of functions through two coaxial pointers representing the left and right channels.

The Modulometer allows you to adjust the level, thus optimizing signal to noise ratio of your system and avoiding distortion.

In addition, it will allow:

- Reaching a proper balance between left and right channels
- Controlling the power supply voltage
- Controlling the output level of the amplifier

- 4 Superior grade tubes** Based on three specifically selected vacuum tubes operating in Pure Class A
- 5 Balanced output transformers** This option can be installed to provide balanced line outputs



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**Class A**

The PL-L uses three high-grade vacuum tubes, biased for pure class A operation. As in all vacuum tube circuits within Nagra preamplifiers, precise DC filament voltage regulation ensures low-noise, high-resolution performance and a long lifetime.

**Extensive tube selection**

In order to get the best performance out of the PL-L, the tubes go through an extensive selection process. It includes a 12 hour burning-in as well as a computer matching program on a Nagra custom benchmark.

**External power supply**

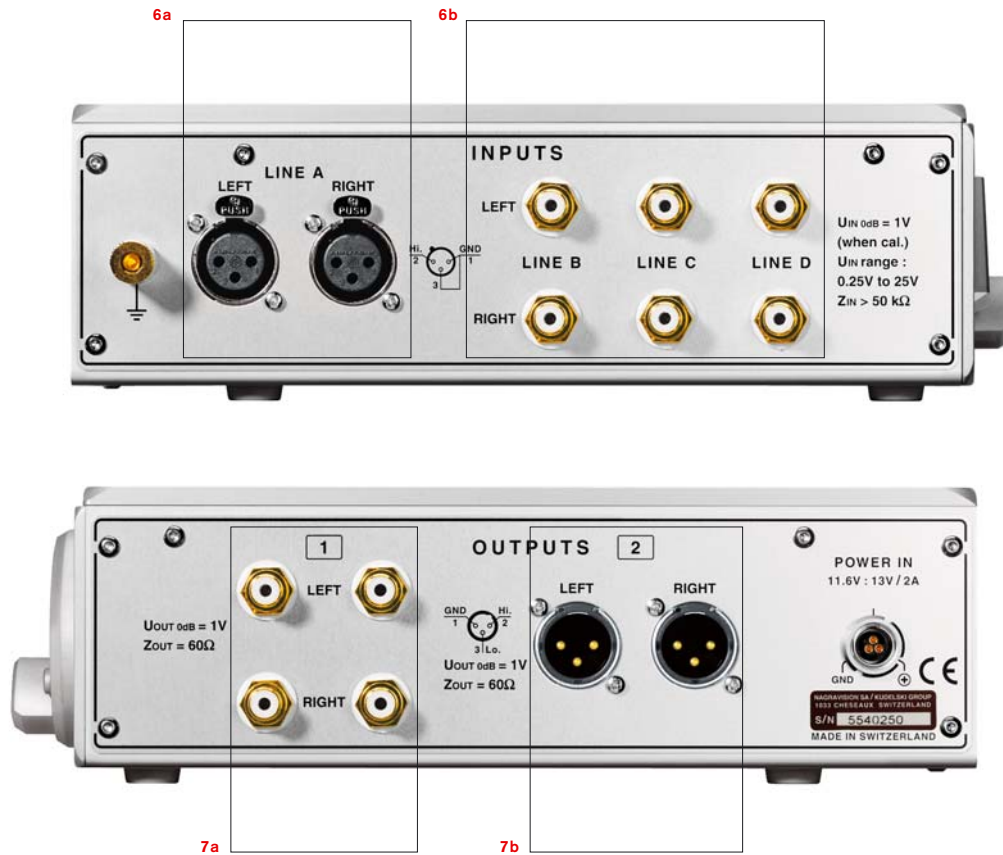
The power supply is a key issue in the quality of audio equipment. That is why, to reduce any interference from the mains, the PL-L features an external power supply.

**Double stage powering unit**

In addition to the external powering unit, the PL-L features a Nagra custom voltage converter housed in a gold plated box. It will ensure quiet and stable powering to the whole unit thus enhancing performance. These specific powering techniques are part of the quality and success of Nagra recorders; it is now available to you in our Hi-Fi products.

**6 Line inputs**  
 Four stereo connectors are configurable for different sources: one set of XLR (6a) and three RCA (6b)

**7 Line outputs**  
 Two sets of RCA (7a) and one XLR unbalanced (7b) outputs are provided (optional balanced and floating)



**Inputs**

The PL-L provides four line inputs that include one XLR and three RCA, all are single-ended. The signal's output is automatically muted when switching between sources.

**Mono/stereo switch**

A convenient mono/stereo switch is provided on the front panel, which facilitates system setup.

**Superior grade power connector**

A special Lemo plug is used to connect the PL-L to the external power supply. The Lemo company is specialized in high quality connectors designed for extreme applications in military and medical fields. This insures superior quality as well as it avoids misconnection with other audio devices.

**Outputs**

The unbalanced outputs are transformer-free and directly coupled to the output tubes. With respect to the most demanding professional applications, it can accommodate loads as low as 600 Ohm with only 1 dB drop in signal level.

One XLR stereo output is also provided. As standard, it is unbalanced. As an option, one set of Nagra custom transformers can be installed to achieve a truly floating balanced output.

Output level can be internally lowered to match any amplifier's reference level.

# technical specifications

## Electrical

Input impedance	> 110 kOhm
Output impedance	60 Ohm
Signal-to-noise ratio	100 dB (A-weighted) at 12 dBV
Min Vin for 0 dB out	0.25 Vrms
Max Vin for 0 dB out	25 Vrms
Bandwidth	10 Hz – 100 kHz + 0 / – 1 dB
Distortion	< 0.01 % 1 V out, no load at 1 kHz < 0.03 % 1 V out, 600 Ohm load

## Physical

Vacuum tubes	2 12AX7 / ECC83 1 12AT7 / ECC81
Power consumption	12 V 900 mA
Dimensions	Width 310 mm (12.2 inches) Depth 254 mm (10 inches) Height 76 mm (3 inches)
Weight	3.20 kg (7 lbs.)

Subject to change without prior notice

**NAGRA**

Nagra is a division of the Kudelski Group  
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Nagra Hi-Fi range of products includes a miniature recorder, a digital to analog converter, preamplifiers, vacuum and solid-state power amplifiers.