

balance musicality

technical specifications



The Nagra VPS is placed on the double shock-absorbing Nagra VFS platform. This optional support protects the preamplifier not only from mechanical vibrations but also contributes to the precision and sonic stability.

Electronics

Frequency response	20 Hz to 30 kHz (+1/0 dB)
Harmonic distortion	> 0.15% (Hi output position)
Signal-to-noise ratio	> 77 dB (ASA A)
Channel separation	Typically 60 dB
Input circuit loading	Without load module installed: 47 kOhms (can be deactivated)
Loading modules	6 modules supplied, 3 custom-made upon request
Input circuit A	Accepts MM and MC inputs
Input circuit B (optional)	As input A or MM only (without transformers)
Transformer gain (MC input)	11 dB
Tube stage gain	34 dB (ECC 81 and ECC83 tubes)
Transistor stage gain	15 dB (can be deactivated)
Correction norms	RIAA 1953 (with jumpers in place) or IEC 1976 (without jumpers)
Power consumption	12,6 W (in 1.6W stand-by mode)
Power supply	External, 94-132 V or 188-264V / 44 to 66 Hz

Mechanics

Input connectors	Gold-plated RCA-Cinch WBT
Output connectors	Gold-plated RCA WBT or asymmetrical XLR Neutrik connectors
Weight	3.3 kg (7.3 lbs)
Dimension (W x D x H)	310 x 254 x 76 mm (12.2 x 10 x 3 inches)

The Nagra VPS preamplifier is developed by the same team as the professional Nagra range and meets the same quality standards. It is delivered with an authenticated performance lets protocol. The above-mentioned specifications represent a guaranteed minimum performance. Nagra is continually improving its products and technologies; as a result, the above specifications may be modified without notice.



Designed to preserve signal integrity

As the signal coming from the cartridge is of extremely low level (barely a few millivolts), phono preamplifiers are very sensitive to radio frequency and electromagnetic interferences, and even to the noise generated by the electronic circuits themselves.

The VPS circuits are designed so as to cut out such interferences from the very start.

The shortest possible tracks are employed. The components are laid out in a carefully calculated manner, and the main circuit is mounted on alpha-GEL® supports to absorb vibrations. No alternating current enters the preamplifier case as the mains power supply is built into an independent external unit. Finally, a special shielding covers the voltage converters that supply the power to the different circuits.

Compact and robust construction typical of Nagra

The casing of the Nagra VPS preamplifier has the same compact dimensions as other equipment in the range, such as the PL-L and PL-P preamplifiers and the Nagra CD players.

The VPS is also made of brushed aluminium with a front and top panels machined from solid blocks of aluminium. The high quality gold-plated connections ensure integrity of the cabled connections. Every detail within the VPS is built to deliver optimal long-term performance.



External Nagra ACPS-II power supply provides the low voltages for the VPS

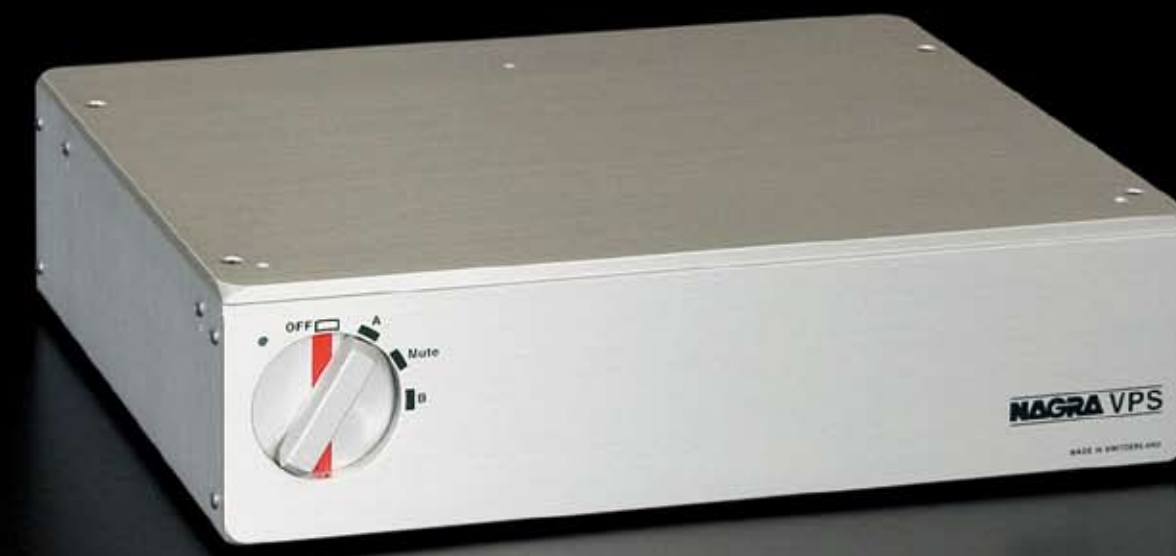


Nagra Audio is a division of the Kudelski Group, 1033 Cheseaux-sur-Lausanne, Switzerland



www.nagraaudio.com

NAGRA VPS
Phono valve preamplifier



To reveal the ultimate potential of your vinyl disks



Swiss Made

precisionadaptability



1 Selector
It gives access to all main functions: Power-up, input choice between A and B or mute

2 Operation LED
It flashes during start-up, while the micro-processor handles the gentle powering phase of the tubes

3 Anti-vibration conical feet (optional)
Machined from an amalgam of copper, nickel and zinc (ARCAF), they are equipped with a rounded tip made from Delrin® resin

4 Main circuit
It incorporates two amplification stages: the first with tubes (+34dB) and the second (deactivable) using discreet components (+15 dB)

5 Voltage converter circuit
It is protected by a gold-plated brass shielding to prevent radiation to the other circuits

6 Input B
Optionally, a second input circuit can be installed. Here a MM circuit is shown

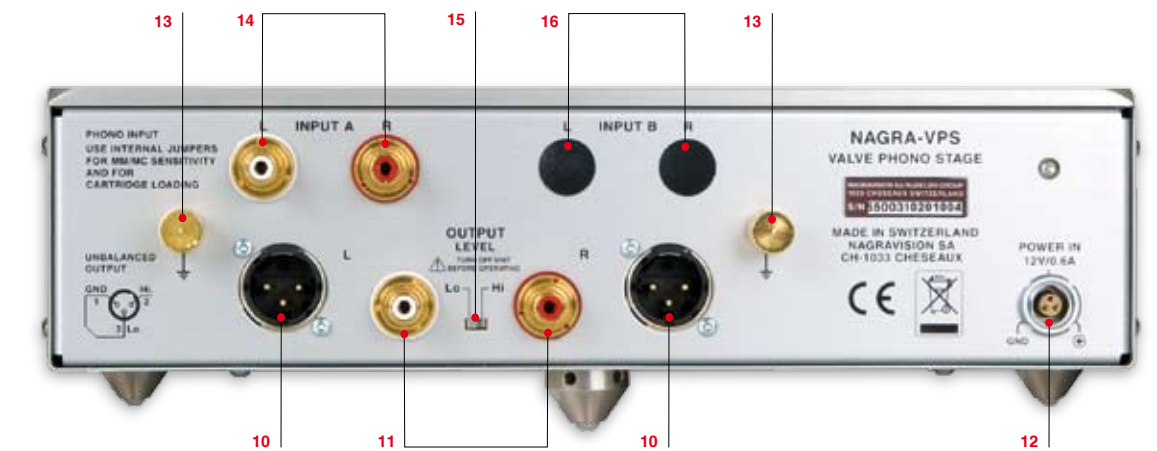
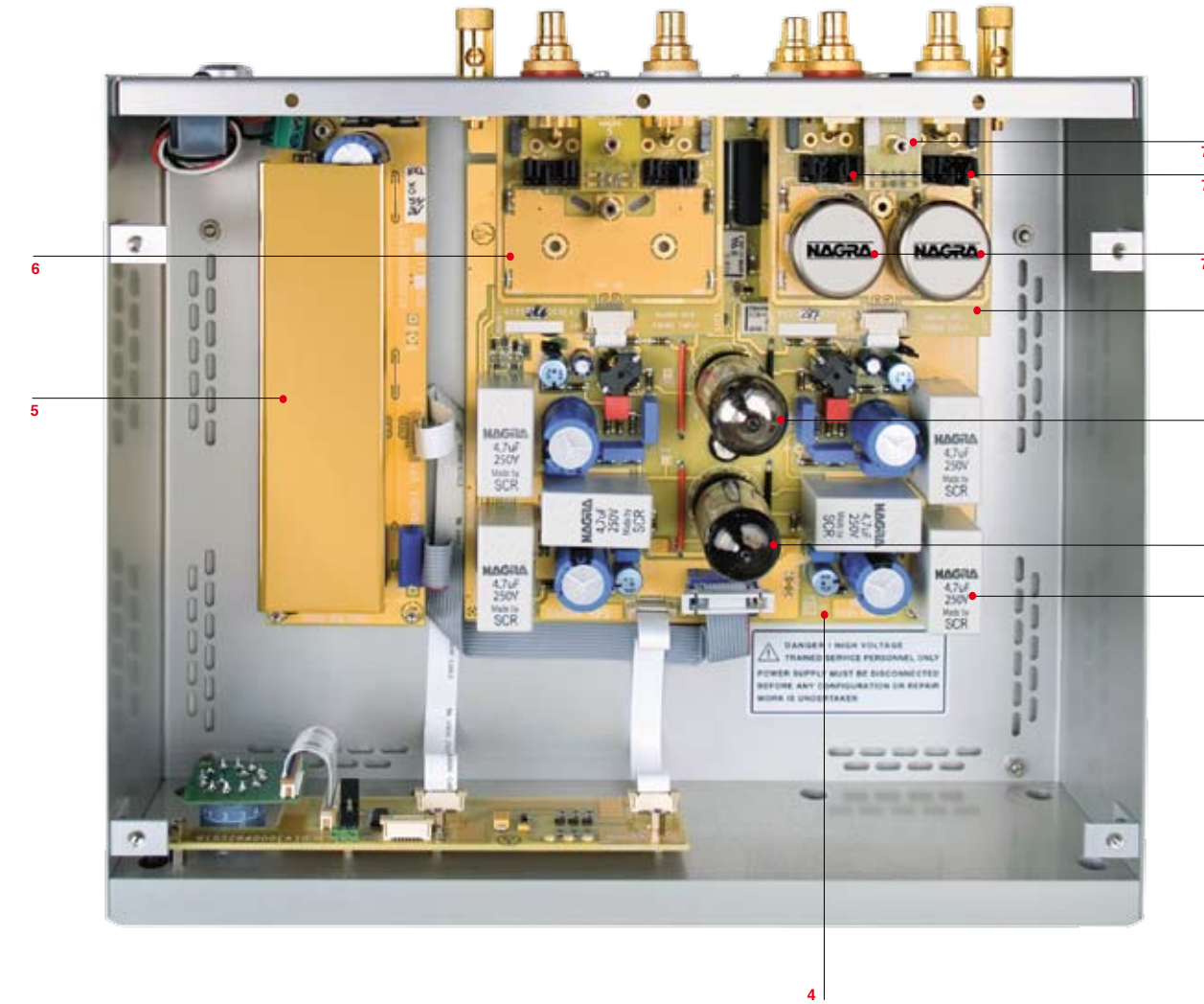
7 Input A (MC/MM)
With a loading module (7a) and a set of jumpers (7b). The transformers (7c) are made in house by Nagra

8 High quality tubes
They undergo a 48-hour burn-in before selection under very strict criteria

9 Polypropylene capacitors
Built specially to Nagra specifications

10 XLR unbalanced output connectors
11 RCA unbalanced output connectors
12 Lemo connector for external power supply

13 Earthing point (one for each channel)
14 RCA connectors for input A
15 Output level selector (300 mV / 2V)
16 Caps to be removed when a second input (B) is installed



The best analogue sound

The Nagra VPS was created for music lovers looking for a state-of-the-art phono stage preamplifier capable of capturing the ultimate potential that vinyl disks have to offer.

The unit, which incorporates Nagra's proven know-how in analog sound technology, delivers exceptional performance. With the Nagra VPS, playback of 33 rpm disks is magical: sumptuous sound, almost human and three-dimensional presence of the music, generous dynamic range...

Built according to very strict processes and based on the same standards as the renowned professional recorders, the Nagra VPS phono preamplifier allows you to make the most of your high-end installation. It is an ideal complement to the very best turntables available today.

Optimizing every detail

The dedicated VPS preamplifier benefits from the extensive development work achieved for the phono section of the polyvalent Nagra PL-P preamplifier, considered to be a benchmark in the high-end domain. Based on this, every aspect of the unit was optimized to reach new levels of precision, transparency and musicality.

The engineers also endeavoured to make the machine as flexible and adaptable as possible. Depending on the equipment installed both up and downstream, the Nagra VPS can be fine-tuned and configured so as to deliver uncompromising performance under all conditions. This approach guarantees sonic reproduction as close to reality as possible. This has been Nagra's primary objective for more than half a century.

Easy-to-configure input circuit

Many audiophiles would like to have a specific loading between their phono preamplifier and the cartridge fitted to the tone-arm. Nagra proposes an easy-to-program system, in the form of a set of jumpers and an interchangeable loading module on the input circuit.

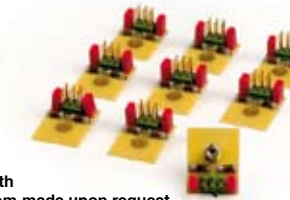
Six different loading modules are supplied with the unit. Furthermore, in order to cover all possible situations, three additional, custom-built modules can be provided upon request over a limited period of time following the purchase of the unit.

The modules and the jumpers are placed close together near the input connectors in order to have the shortest possible signal path.

Two gain stages for optimal amplification

The Nagra VPS phono preamplifier has two gain stages so as to adapt to either high or low sensitivity cartridges.

The first double triode tube stage, which is based on either RIAA or IEC correction curves, supplies a gain of 34 dB, optimal in most configurations. For cartridges delivering a particularly low signal level, a second stage, using discreet components, can be switched in for an additional gain of 15 dB. As soon as a moving coil cartridge is used, the input transformers add an additional gain of 11dB to the final gain.



Loading modules: Six are supplied with the unit and three others can be custom-made upon request

An optional second input circuit

The Nagra VPS phono preamplifier is delivered with an input circuit (input A) designed for either moving coil (MC) or moving magnet (MM) cartridges.

Switching between the two options is made using internal jumpers mounted on the input circuit board, which activate the input transformers dedicated to MC cartridges.

For users who have several turntables or a single turntable with two tone arms, the Nagra VPS can be fitted with an optional second input circuit (Input B). Two types of circuit are available: one is identical to input A meaning switchable MM/MC and the other is simply designed for MM cartridges and thus has no transformers.

Specially selected components

The active and passive components that equip the Nagra VPS meet the strictest of norms. Many of them are built according to specific requirements.

The tubes are tested for 48 hours on a special benchmark, and more than 90% are rejected as they are outside the noise and performance tolerance levels. This rigorous selection also ensures that the tubes have the longest possible lifetime, estimated to be of at least 5,000 hours.

The new-generation MC cartridge transformers are hand-wound by Nagra and are protected by an anti-magnetic μ -metal shielding. They possess exceptional electrical qualities and demonstrate outstanding linearity.