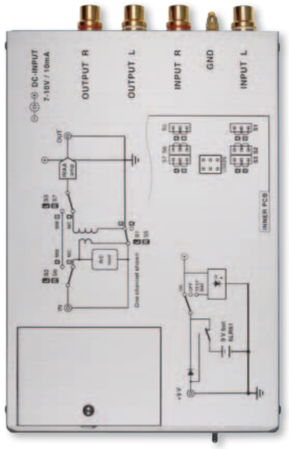
compactmusical



Simple, solid, reliable

The appearance alone of the Nagra BPS phono preamplifier expresses the philosophy behind the development of the unit.

Compact: The BPS measures only 110 x 27 x 160 mm (4¼ x 9/16 x 6¼ inches) and can easily be integrated into any set-up, as close to the tonearm as possible. It is a concentration of state-of-the-art technology.

Simple: Easy connections and a single switch on the front face to enjoy the very best of vinyl records.

Solid, reliable: A typically Nagra construction and finish. Finely brushed anodized aluminium, Swiss build precision. Once again, timeless Nagra electronic design.

The revealing link

Turntables, tonearms and cartridges have not, from a technical aspect, stopped progressing over the years. Today, they allow vinyl disks to offer an unequalled degree of musicality. However, to benefit from this constant increase in quality, the signal coming from the cartridge must be handled by a preamplifier having excellent characteristics. It must deliver the entire musical message, without adding or removing anything, avoiding coloration or noise on its outputs.

The Nagra BPS is designed to maximize all these criteria. Thanks, amongst other things, to its system set-up, it is able to harmoniously integrate into all electronic environments and work totally transparently for the greatest listening pleasure.

technicalspecifications

Electronic

Frequency response	20 Hz (+1dB) at 30 kHz (0dB) RIAA conform
Harmonic distortion	< 0,15%
Signal-to-noise ratio	> 77 dB (ASA A)
Channel separation	Typically 60 dB
Input circuit load	47 kΩ without load module installed
Loading modules	6 modules supplied (100, 150, 220, 330, 470 Ω and 1kΩ)
Transformer gain (MC input)	Ratio 1:3.54 (+11 dB)
RIAA stage gain	53 dB
Total gain	64 dB, switchable to 49 dB with internal jumpers
Output level	2 V
Correction norm	RIAA 1953
Power consumption	70 mW
Power supply	1 battery 9 V type 6LR61 (PP3)
Estimated battery life	Approx. 100 hours

Mechanical

Input connections	RCA-Cinch (gold-plated)
Output connections	RCA-Cinch (gold-plated)
Weight	480 g (16.9 oz)
Dimensions (L x D x H)	110 x 27 x 160 mm (4¼ x 9/16 x 6¼ inches)

The Nagra BPS preamplifier is built by the same teams as the Nagra professional range and meets the same standards of quality. It is delivered with a test measurement protocol certifying its performance. The specifications above represent a minimum guaranteed level. Due to the policy of constant improvement by Nagra, the above specifications may be modified without notice.

CE ☑ RoHS

Nagra VPS phono preamplifier

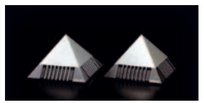
Nagra PL-P preamplifier

Nagra PL-L line preamplifier

Nagra CD players CDC, CDP and CDT

Nagra MSA stereo amplifier

Nagra VPA mono amplifiers



Nagra PMA (mono) et PSA (stereo) amplifiers

Nagra Audio is a division of the Kudelski Group, PO box 134, 1033 Cheseaux-sur-Lausanne, Switzerland

www.nagraaudio.com

Deinchers Communication / PRINTED IN SWITZERLAND 08.2010 - ref. 2050004.141

NAGRA BPS
Transistor phono preamplifier

NAGRA
Swiss Made

Nagra is one of the most recognized brands in the world with, among other awards, three Oscars® and one Emmy®

1 **Power LED**
Indicates when power is switched on as well as the condition of the battery when in the TEST position

2 **Double function switch**
Main power-on control and battery test position

3 **Input connectors**
Gold-plated RCA connectors Left channel (3a) and right channel (3b)

4 **Earth connector**
Post to be connected to the turntable

5 **Output connectors**
Gold-plated RCA connectors. Left channel (5a) and right channel (5b)

6 **Mains power connection**
Requires a standard 7 to 10V dc power supply, 10 mA (not supplied)

7 **Power supply**
9V battery type 6LR61 giving about 100 hours operation

8 **Motherboard with gold tracks**
Holds all the main electronics to keep signal paths short

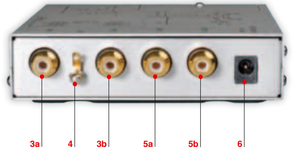
9 **Input transformer (1 per channel)**
Encapsulated in a µ–metal case is the in-house wound transformer

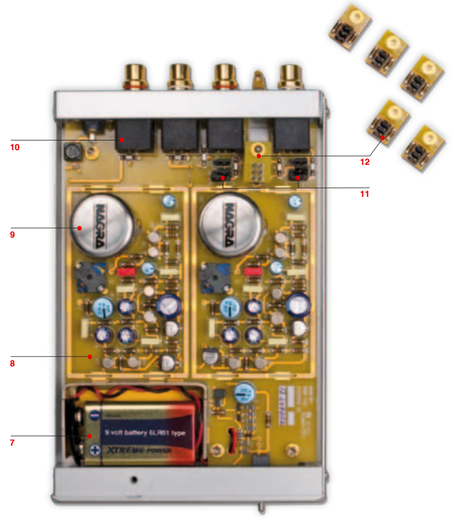
10 **Connections soldered on the circuit**
Avoids cable connections

11 **Jumpers**
For the input switching MM/MC and gain reduction of high level cartridges

12 **Loading modules**
Adaptation of the circuit to the cartridges. 6 Values supplied

transparencyadaptability





A new pinnacle for vinyl discs

A very compact link aimed at the most exclusive installations, the BPS phono preamplifier opens the door to quality vinyl listening of the highest order. Never before has the technology linked to this timeless support achieved such transparency, so naturally in perfectly silent operation.

Designed in the same manner and by the same engineering teams as for the renowned recorders, the Nagra BPS preamplifier is the result of engineering pushed to the limits in every respect.

From the conception of the electronic circuits to the final test procedures, everything is done to assure the same goal: a lively reproduction as close as possible to the true original sound.

In the same line as the prestigious predecessors

The Nagra BPS benefits from successive developments of the previous Nagra preamplifiers, the PL-P and more recently the VPS – both tube based units. The Nagra BPS uses the same principle circuit design, but with transistor technology giving extremely low power consumption, allowing a miniaturization and rationalization of the device.

Thanks to this approach, the Nagra BPS is positioned in a competitive place amongst the other preamplifiers of the Nagra range. Associated to the Nagra PL-L line preamplifier and one of the company's power amplifiers, the Nagra BPS serves as a system entry offering unequalled neutral and transparent qualities. End-to-end clarity in the pure Nagra tradition.

Elegance of the conception, integrity of behaviour

The preamplification of a signal coming from a turntable is a delicate operation. It requires managing an extremely low level and particularly vulnerable audio signal. This is a problem that Nagra engineers are confronted with on a regular basis with professional recorders, of which the microphone inputs are also extremely sensitive.

The Nagra BPS preamplifier incorporates a group of proven solutions that give it the highest possible integrity in signal management. Sources of potential disturbance have been taken into consideration from the outset. The schematics have thus been drawn using in-house methods, concentrating on the essential elements and avoiding any superfluous components. An elegant approach benefitting the final behaviour of the unit.

The highest possible performance

Thanks to the minute consumption of the circuits, the Nagra BPS was able to be fitted with a power supply based on a simple battery. An ideal situation in terms of operational silence. The unit escapes from the traditional mains power supply problems: residual background noise, electromagnetic interference, extra weight and bulky size.

The entire electronics of the Nagra BPS are on a single high quality board, with the shortest possible tracks to carry the signals. The connections are all soldered directly on to the circuit. The electronic component placement has been particularly studied to avoid interactive disturbances. All these cumulative measures assure reaching the highest possible performance and reliability.

Input transformers "made by Nagra"

The inputs of the BPS preamplifier are equipped with very special transformers, with a magnetic glass-metal core. As with the recorders, it is one of the key pieces of the unit, that the company designs and winds entirely in their own laboratories.

Nagra is one of the rare manufacturers in the audio world to have the particular know-how, which they have perfected for decades: one of the "secrets" leading to the inherent Nagra quality.

Thanks to these transformers, which are mounted inside µ-metal magnetic shielding, the Nagra BPS preamplifier has excellent characteristics in terms of linearity, saturation level and low frequency management.

A totally programmable unit

The market offers a wide range of cartridges designed for turntables, and of differing technologies: Moving coil (MC) and moving magnet (MM). These cartridges have widely varying characteristics.

This diversity is no problem for the Nagra BPS preamplifier, as the unit is totally programmable by the user to obtain a perfect correlation between the load of the cartridge and the circuit.

A set of jumpers and loading modules are provided, used depending on the different cartridge characteristics. The inputs can also be switched to floating, that is to say disconnected from the earth, thus avoiding all earth loop problems generating parasitic noise.