



soulution 520 Preamplifier

Dynamics, resolution, control and musicality at the highest state characterize a top class preamplifier. The soulution 520 aces all these challenges!

4 line inputs and a top class phono stage are on board. Therewith it is perfectly equipped for all audiophile requirements.

Philosophy

A preamplifier should only attenuate the music signal but not change it in any way while meeting highest technical specifications. No distortion, no humm or noise at the same time providing best cross talk and large bandwidth performance!

Layout

The unbalanced design ensures the least amount of compnents in teh signal path. Physical separation of the left and right channel provides optimal separation and cross talk performance. High quality relais switch between the inputs, the music signal gets buffered directly at the input. Therefore the preamplifier is an uncritical load for any source component.

An audio grade coupling capacitor prrfects the preamplifier as well as the subsequent amplifier and loudspeakers from potential DC components in the music signal.

Volume control

For the volume control which also controls the balance of the preamplifier, we use only high-precision, low-noise metal foil resistors. To block out switching peaks during the volume control process which may be hazardous to power amps, the 520 preamp is equipped with a second volume control with PGA (Programmable Gain Amplifier), which is only active during the volume control process.

Similar to a potentiometer, the volume can be adjusted without clicking noises. As soon as the new desired level value has been fixed, the unit will simply return to the control via the precision resistors.

Output stage

The output stage is supposed to drive also long cables lossfree. For this reason it was more than sufficiently dimensioned. The multi-stage signal amplification is similar to that of the 720 preamplifier. Thereby we achieve a very fast, ultra wideband (1MHz/-3dB) amplification.

Phono-MC-Preamplifier

Similar to the reference preamplifier 720 the phono preamp of the 520 is also based on a multi-stage amplification concept using highest grade components.

Operation

The 520 preamplifier is operated via its front-panel buttons and rotary control. Quite a number of additional functions allow an optimisation of the entire hifi system and an ideal set-up of the individual components.

Connectors

Analogue Inputs:

- 2x balanced input (XLR)
- 2 x unbalanced input (RCA)
- 1x phono

Analogue Outputs:

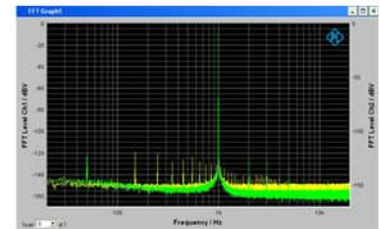
- 1 x balanced (XLR)
- 1 x unbalanced (RCA)

LINK-System

soulution 520 Preamplifier: Technical data

FFT (Fast Fourier Transfer)

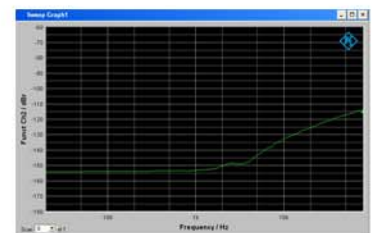
The distortion added by the preamplifier 520 are close to not measureable with top class audio analyzers. All distortion components are clearly below -120dBr.



FFT Analysis

Crosstalk

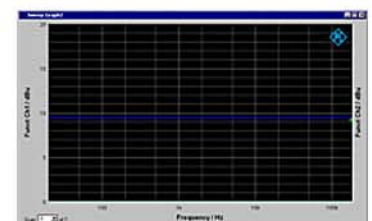
The crosstalk measurement shows how the music signal of the right channel affects the left channel. Even with high frequencies the measurement still reveals ideal conditions of far below -120dBr. The basic prerequisite for a three-dimensional sound experience.



Crosstalk

Frequency response

The music signal shows a constant gain over the entire frequency range. Up to 200kHz the 520 demonstrates a flawless behaviour with no deviations.



Frequency response

Nominal voltage

Model 220 – 240 V / 50 – 60 Hz 220 – 240 V
 Model 100 – 120 V / 50 - 60 Hz 100 – 120 V

Consumption

OFF (standby) <0.5 W
 Operation 100 W

Input (IN 1 ... IN 5)

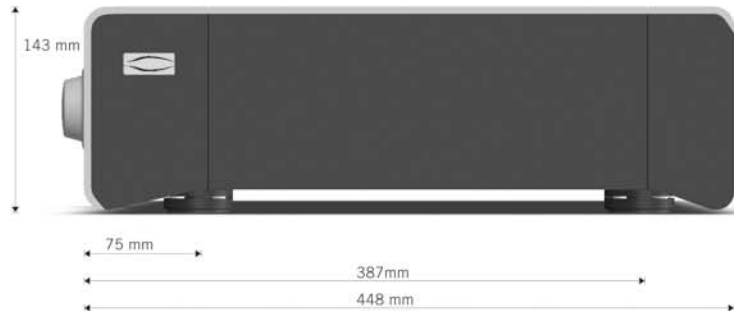
Impedance balanced (IN 1... IN2) 10 kΩ
 unbalanced (IN 3...IN4) 47 kΩ
 Phono (IN 5) adjust..

Output

Gain balanced -83...+16 dB
 unbalanced -89...+10 dB
 Frequency response DC-800 kHz
 THD+N <0.001 %
 Signal-to-Noise Ratio >120 dB
 Crosstalk <120 dB
 Impedance balanced 10 Ω
 unbalanced 10 Ω

LINK-System +12 V

Dimensions



442 mm

