

# 520 preamplifier



## Product Announcement



## soulution 520 preamplifier

We are pleased to announce the market introduction of the 520 preamplifier.

### **Dynamics. Resolution. Control. Musicality.**

All as close to perfection as possible. It's what characterizes a top class preamplifier. The soulution 520 meets these challenges and more. With four line inputs and a high quality phono stage built in, the soulution 520 is perfectly equipped for all audiophile requirements.

### **Philosophy**

A preamplifier should only amplify or attenuate the music signal, not change it in any way, while meeting the highest technical specifications. No distortion, no hum or noise, at the same time achieving the lowest cross talk and widest bandwidth. The soulution 520 preamplifier elegantly meets these demands and is a benign load for any source component.

### **Design**

Unbalanced design ensures the fewest components in the signal path. Physical separation of the left and right channel provides optimal separation and cross talk performance. High quality relays switch between the inputs. Source signals are buffered directly at the input. For safety, an audio grade coupling capacitor protects the preamplifier as well as downstream amplifiers and loudspeakers from potential DC components in source signals.

### **Volume control**

The 520's volume control uses only high-precision, low-noise metal foil resistors, and it controls both the volume and balance. To block switching peaks during volume changes which may be hazardous to power amplifiers, the 520 is equipped with a second volume control with a PGA (Programmable Gain Amplifier). Active only during the volume control process, it is similar to a potentiometer and enables the volume to be adjusted in smooth, click-free steps. As soon as the new desired level value has been selected, the unit returns control to the precision resistors.

### **Output stage**

Multi-stage, similar to that used in the reference 720 preamplifier, it achieves very fast, ultra wideband (1MHz/-3dB) amplification and is able to drive the longest interconnects with ease.

## Phono-MC-Preamplifier

Similar to the 720, the phono preamplifier of the 520 is also multi-stage using the highest grade components.

## Operation

The 520 is operated via its front-panel buttons and rotary control. Multi-functional, these allow optimisation of the entire audio 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:

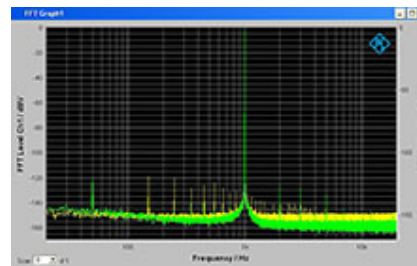
- 1 x balanced (XLR)
- 1 x unbalanced (RCA)

LINK-System

## solution 520 Preamplifier: Technical data

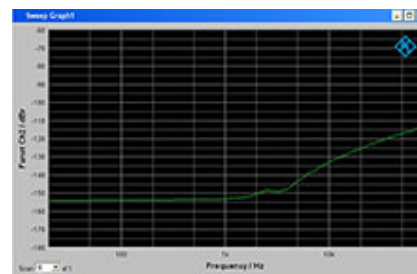
### FFT (Fast Fourier Transfer)

The distortion added by the preamplifier 520 are close to not measurable with top class audio analyzers. All distortion components are clearly below  $-120\text{dB}$ .



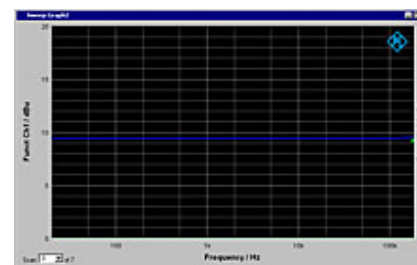
### Crosstalk

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  $-120\text{dB}$ . The basic prerequisite for a three-dimensional sound experience.



### 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.



### 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 k $\Omega$
unbalanced (IN 3...IN4)	47 k $\Omega$
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 $\Omega$

**LINK-System** +12 V

## Dimensions

