Series 7

soulution
nature of sound

Highend Audio Equipment
made in Switzerland


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soulution
nature of sound

To preserve the natural purity of sound in its entirety – this is the challenge that first class high fidelity components must master. During the development and production of our Series 7 CD/SACD players and amplifiers, we at soulution have never let this challenge out of our sight. Our team is firmly convinced that the acoustical beauty of music does not need artificial enhancement, and that the music signal should pass through every component as purely as possible. For firstclass components, the requirement of true high fidelity has always been: »no deletions, no additions«.

This sounds simple. However it is no easy task for an amplifier or digital player to truly approach the ideal of natural music reproduction: to interfere as little as possible with the music, to serve the music instead of imposing itself upon it, to achieve complete control of the reproduction without depriving the sound of its magic.

For the natural reproduction of music, state-of-the-art technology is a prerequisite, but not an end unto itself. High end components should not adulterate the music by their own sound. For the listener, becoming absorbed in the music is a sensual experience, full of emotional fireworks. The technology must be subordinate – and transparent – to the music. This is soulution's understanding of »nature of sound«.

Cyrill Hammer
Head of Business Unit

Christoph Schürmann
Head of Engineering

reddot design award
winner 2006

The quality of the recording and that of the signal supplier are of fundamental importance in high fidelity. For what is lost at the source, cannot be made good by any amplifier or loudspeaker, be it ever so eminent. Therefore the task of a reference CD player reads as follows: read out all musical information and transfer them with no digital artefacts into the analogue domain.

CD/SACD player

A CD or SACD player is not merely a digital, yet also an analogue device in the hifi chain. For ultimate reproduction standards all aspects need to be taken into account during the design process; a high-quality D/A converter alone – as was once commonly accepted – just won't do here. Only the synthesis of a superb drive unit for perfect data readout, a high-precision master clock generator that eliminates jitter right from the start, an intelligent digital signal processing with oversampling technology and preamp-grade analogue output stages can assure by their dovetailed interaction that nothing is lost at the digital source of hifi reproduction.

But the soulution 740 and 745 are more than just a CD/SACD player: they are the digital control centre of your hifi system. Fitted with four digital input and output jacks, the 740 and 745 offer total versatility. Whether you wish to record to a digital medium or make the top-class converter section available to external digital sources – the connecting capabilities of the soulution 740 and 745 permit all options including balanced, unbalanced and optical digital connections. This way, you are all geared up for the future.

In many modern CD players the eye of the technophile music lover will spot a lot of air. Not so with the soulution 740 and 745. The consistent dual-mono layout even required outhous-

soulution
740 / 745

ing the three individual power supplies for the drive, the digital electronics and the analogue output stages into a separate cabinet. Pleasant side effect: any parasitic interferences upon the signal-bearing modules from mains transformers or the like are thus nipped in the bud.

The data read out in the soulution 745 is provided by a »Esoteric«-mechanism from Teac, operating in synchronous mode, for the soulution 740 we use the highend mechanism StreamUnlimited JPL-2580 in »CD«-version. Both rest on a massive copper plate, decoupled mechanically as a subchassis by four damper elements. While playing a CD or SACD, the drive unit has no contact with the front panel.

The audio data are buffered, a DSP provides the 8-fold oversampling conversion to 24 bit / 352.8 kHz. Regarding up- and oversampling, we hold the view that highest precision rather than highest clockrates should be given priority with the interpolation of the intermediate values. We therefore use the polynomial algorithm by digital specialist Anagram Technologies which allows an ultra-precise curve calculation. The upsampling function of the succeeding Burr Brown PCM 1792 D/A converters is not used. Two of these converter groups are

soulution digital module:
For data processing and the 8 fold oversampling the soulution 740/745s DSP uses the utmost precise Anagram-Polynomial-Algorithm – by far more precise than any standard converter chip.

Open digital architecture:
The soulution 740 and 745 provide four digital inputs and outputs – including the balanced digital AES/EBU connection. Also the master-clock signal (word clock) can be received and/or transmitted.

CD/SACD player

operated in a digital-balanced mode, and as we consider the PCM conversion technology as superior, the DSD signal of the SACD is converted to PCM before its final D/A conversion.

The extremely wideband output stage of the 740 and 745 is identical to that of the reference preamplifier 720, inclusive of the excellent power supply – an unparalleled effort for a CD player. None the less impressive is the master clock generator that provides a clock signal of highest precision. Residual jitter is below one pico second, so with today's measuring procedures, the soulution 740/745 cannot be blamed for virtually any jitter. Since the Burr Brown converters are switched to dual-mono mode, there are hence four output currents which

soulution
740 / 745

are normally added right at the converter's output. Now, in the soulution 740/745 those currents are first transformed into a voltage and then filtered. That current-voltage-converter operates with an internal bandwidth of 80 Megahertz, thereby laying the basis for ultimate S/N ratios and maximum dynamic range in the analogue domain.

Accordingly forceful are the technical specifications of the soulution 740/745. The extremely low distortion figures, excellent channel separation and perfect linearity guarantee you: whatever the best sound engineers may pack into the digital formats of the CD or SACD – the soulution 740/745 will get it out again. With this signal source nothing will be lost to you.

The acoustic result of this superb signal purity and incredibly precise reproduction is indeed like building a bridge from the digital to the analogue world. Just imagine the wealth of tonal shades and the suppleness commonly associated with »analogue«, joined with the precision and dynamics of the best digital techniques – never before CDs did sound that gorgeous. With well produced SACDs the soulution 745 finally demonstrates the capabilities of digital music reproduction. soulution 740 and 745: nothing will be lost. Nothing will be adulterated. »Nature of sound«.

The players soulution 740 and 745 are fully compatible with the digital SPDIF-world through four digital inputs and outputs. The external power supply unit (below) provides the required voltages for the analogue and digital section – connected to the player by shielded cables.

The tasks of a preamplifier have changed considerably over time. Analogue turntables with MC cartridges require a »pre-amplification« of 60 decibels (amplification by factor 1000) while CD-players provide output levels that can drive power amplifiers directly. Theoretically, digital signal sources would not require any »pre-amplification«.

Pre amplifier

The preamplifier is still the central control unit of each High-Fidelity system. It is responsible for source selection and volume control. Its output stage must be able to drive long and critical connecting cables to the power amplifier – with optimal quality – via balanced as well as unbalanced connectors. soulution believes that the preamplifier is the »heart of the HiFi system«. The opinion that a preamplifier is redundant or should be replaced by a passive volume control is a viewpoint we at soulution do not share. Because our fundamental research has shown that the preamplifier is simply not replaceable for sonic reasons.

The soulution preamplifier is available in two models. The soulution 721 is the first choice for the pure CD/SACD listener who will not be connecting either analogue turntables or recording equipment. The fully equipped flagship preamplifier soulution 720 additionally includes a top-class phono-stage input for moving-coil cartridges featured with the finest components, a second balanced input, and a recording output – it is truly the reference preamplifier for all analogue and digital music sources.

An ideal preamplifier is stable, regardless of the load, provides constant amplification and zero phase-shift across all frequencies. This should happen without long signal paths or the pop-

soulution
720/721

ular transistor technology circuit design with excessive amplification (open loop gain) and very high negative feedback. Even though we have omitted these »features« our preamplifiers 720 and 721 work nearly free of distortion, hum and noise – providing maximum channel separation and the highest frequency bandwidth (up to 1 MHz / -3dB)

We at soulution are convinced that an unbalanced circuit design is superior due to its lower number of elements in the signal path. The required stereo channel separation is only achievable by a consequent dual mono layout with separate circuit boards for the left and the right channel. The source selection is realised with high quality relays also switching ground. Immediately following the input connector the music signal is buffered in the soulution 720/721, thanks to this impedance conversion the preamplifier represents an uncritical load to your source equipment. Differences in output level of signal sources can be adjusted by individual gain-settings for each input (3/6/9 Decibels). The input signal is permanently monitored for DC-components, at a level of > 15 mV a high-class coupling capacitor is switched into the signal path. If DC-offset has decreased the coupling capacitor is removed automatically after 15 seconds – this guarantees optimal security. Digital sources may emit high frequency noise which can adulterate sound quality considerably. Therefore the band-

MC phono input:
The soulution 720 provides a top-quality MC-input that convinces even most demanding vinyl connoisseurs. Precise adjustment to the cartridge is done by pluggable phono termination modules.

Perfect volume control:
Highest quality relays combine finest vishay dale resistors to an 80 level volume control. The volume is adjustable in 1 dB steps without the slightest click-noise.

width can be limited individually in three steps (20, 200 kHz and 1 Megahertz / -3dB) for each input. In combination with top quality source equipment we suggest to operate the pre-amplifier with maximal bandwidth. This allows the music signal to pass the preamplifier with the smallest interference possible. This is the ambition: »nature of sound«.

The soulution 720/721 has not been optimised artificially for best measurement results while depriving musical performance. Even though harmonic distortion, hum and noise are signal deformations imposed over the music which are covering details and artificially changing the music. The credo of true high fidelity – »no deletions, no additions« – does not allow any deformations irrespective of its nature. Once a pre-amplifier works without any distortions the question how the THD-spectrum is influencing sound quality gets irrelevant.

Pre amplifier

soulution
720/721

Measurements with the Audio-Analyzer Rhode & Schwarz UPV prove the distortion free operation of the soulution preamplifiers (see »specifications«). Nearly all harmonics of the mains frequency are below the -120 dB mark – prove for the extremely low noise power supply unit. The green measurement (THD + N) represents the generator of the UPV, the yellow one is the soulution 720. The marked green THD-peaks at 2, 3 and 5 Kilohertz are not provoked by the preamplifier but by the UPV itself. This means: Not even the today's probably best Audio-Analyzer is able to detect the soulution 720's harmonic distortion – they are simply »not measurable«. The »Megahertz-Bandwidth« and respective velocity of signal processing is proven by the frequency response – even at 100 kHz not the slightest decrease in amplification is visible. Also in terms of channel separation – essential for spatial reproduction – the soulution 720 sets new standards with results of >110 dB up until highest frequencies.

The sonic qualities resulting from the »virtually lacking« of the preamplifier are breathtaking. The transparency and richness of details revealed by the soulution 720 are peerless. Even more exciting is the almost holographic and three dimensional spatial reproduction resulting in a nearly unbelievable realistic sound stage (high quality recording prerequisite). The incredible drive in the low bass area unfolded by the soulution 720 can not even roughly be matched by passive volume controls. With absolute control and precision across all frequencies. soulution 720 – the perfect preamplifier.

The line stage soulution 721 provides three unbalanced (WBT Nextgen Cinch) and one balanced XLR-input. Balanced and unbalanced outputs connectors are available.

For decades vacuum tube amplifiers have been able to stack up against the transistorised competition – despite inferior measurement results. How is this possible? Our fundamental research has shown that transistor amps are generally neither superior nor inferior to tube circuits. soulution amplifiers combine the advantages of both types.

Power amplifier

For a long time the power rating has been the center of attention for qualifying power amplifiers, later followed by total harmonic distortion (THD) and damping factors. However such isolated observations can not sufficiently explain the characteristics of the sound delivered by an amplifier. We believe that only a comprehensive view which considers the real load of a loudspeaker leads to valid results.

An ideal amplifier is stable, regardless of the load, provides constant amplification and zero phase-shift across all frequencies. This should happen without long signal paths or tricks that are often used in transistor technology such as excessive amplification (open loop gain) and very high negative feedback. Such amplifiers may deliver good measurement results, but very often they are inferior in sound when compared to simpler vacuum tube designs. The aim of the soulution 710 is also to be extremely fast (1 MHz – 3 dB) and to dispose of high current ratings – which cannot be realised with vacuum tubes. The unique circuit design of the soulution 710 leads to characteristics of sound that until now have been seen as incompatible: precision, speed, stability and power – all unified for the first time to serve the music.

Immediately following the input connector, the music signal is buffered in the soulution 710 and therefore is transmitted with

soulution
710

low impedance to the entrance of the following error amplifier. An extremely fast operational amplifier, whose negative feedback detects deviations quickly and precisely (thanks to high processing speed), provides a corrected, but still unamplified incoming signal.

Next follows the true heart of the soulution 710: the »fixed gain« voltage amplifier. The music signal passes through this ultra broadband amplifier stage in approximately 10 nanoseconds with a maximum level deviation of 0.1 dB. This highly linear amplifier stage can perform at this level of precision only under constant thermal conditions; therefore it is combined with the error amplifier in a module casted in synthetic resin. Fourteen bipolar power transistors per channel, fixed on a massive copper rail which is permanently temperature controlled to maintain a constant idle current, provide the soulution 710's gigantic current rating of 60 amps.

With the extreme linearity of the amplifier, it is, in our view, the stability of the power supply voltages that determine if that amplifier sounds truly exceptional. The power supply in the soulution 710 is equipped with two 1000 VA-toroidal transformers, capacitors with a total capacity of nearly 250 000 microfarads, and discrete rectifiers. Throughout the soulution

Input selection:
The input of the 710 may be selected comfortably at the press of a button on the front panel. The brightness of the mirrored display can be adjusted by the user.

No-compromise power supply:
The power supply unit is the foundation for any amplifier. Two gigantic torrodial transformers of highest quality plus four top-grade capacitors form an enormous energy reservoir.

Power amplifier

710, we use ten separate power supplies. The power supplies for both the error amplifier and the »fixed-gain«-amplifier are stabilised in multiple stages.

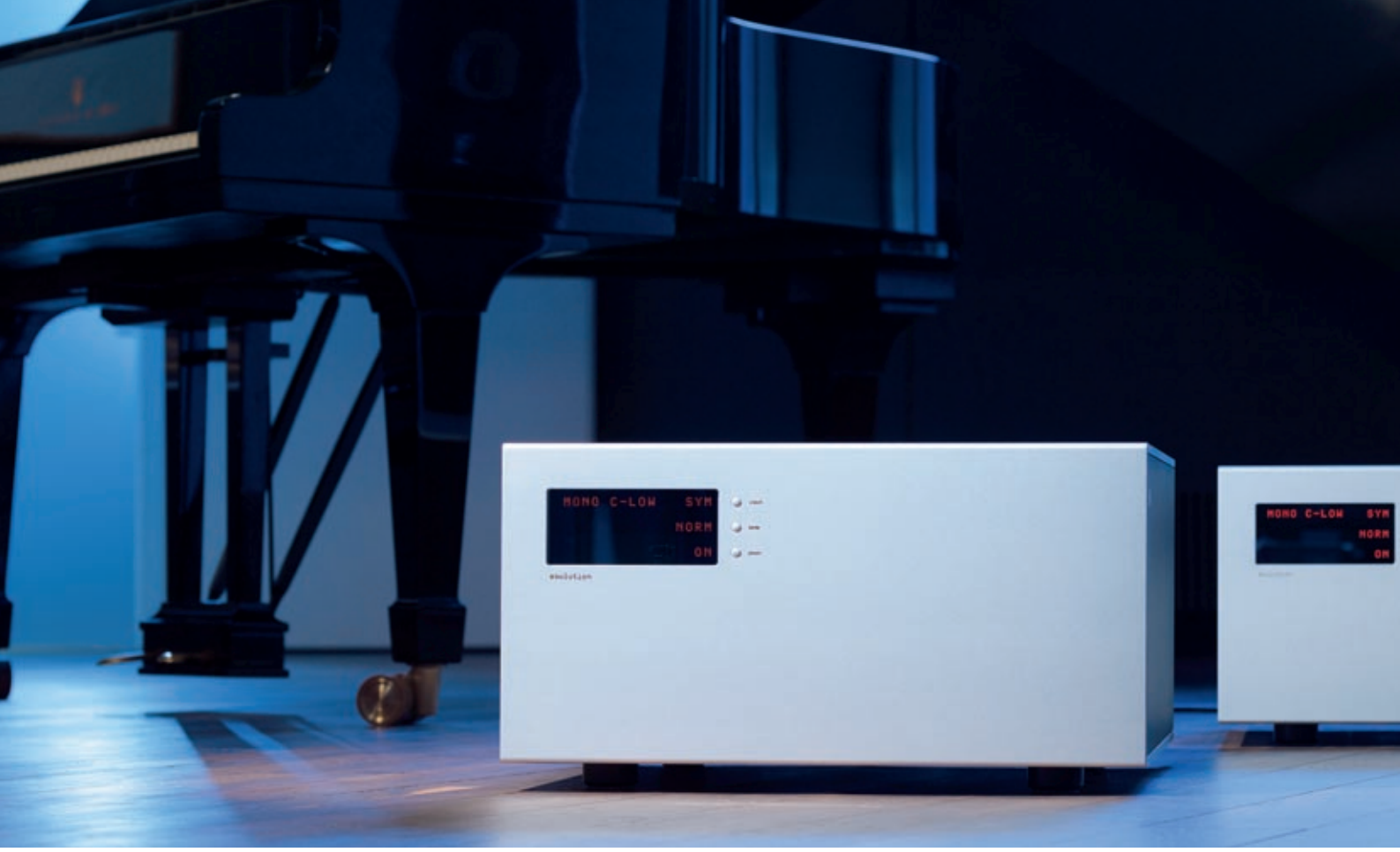
The soulution 710 combines stability, precision, speed and power not only in terms of the sound it delivers. But it can also prove these virtues in technical reviews without being artificially tuned for best results at the expense of sound quality. The soulution 710 works very linearly even without negative feedback. Therefore the calibration of smooth overall feedback, working practically free of timing errors, can be made exclusively according to sonic criteria (control in low base area and precision in spatial reproduction).

soulution
710

And the soulution 710 is mastering even the most demanding technical testing with success. Not even the famous »cube« of a well known German HiFi-magazine could impress the soulution 710. The power delivery is simply perfect at every load. The extremely low total harmonic distortion (THD) is dominated by the 2nd harmonic, which is said not to be harmful in music reproduction. THD components of higher order, usually difficult for vacuum tubes, are nonexistent within the soulution 710. The outstanding bandwidth and velocity are proven by the frequency response, that shows not the slightest decrease in amplification even up to 100 kHz. With a slew rate of less than 0.4 microseconds the soulution 710 is one of the few ultra fast amplifiers with true »Megahertz-Bandwidth«.

Finally there is only one test that really matters when making a decision: the listening! Listen to how the soulution 710 makes your loudspeakers perform. Be amazed at the control and quality of the low base that is possible with this state-of-the-art technology. Experience the effortless sound of precious vacuum tubes paired with the rock-solid spatial reproduction and neutral sound of the best transistor amplifiers. Experience the music in all its natural variety and beauty. soulution power amplifier 710 – the new standard for uncompromised musical reproduction. »nature of sound«.

The soulution 710 provides unbalanced (WBT Nextgen Cinch) and balanced XLR connectors. The extremely low noise cooling fan activates itself only after two or three hours of intensive music listening.



With their model 710 soulution has set new standards for power amplifiers. This ultra-broadband concept is also the basis for the 700 mono blocks which, in addition to unalteredly superb benchmark data, offer enormous power reserves. Using the soulution 700 you can drive any loudspeaker with confidence, however critical it may be.

Power amplifier

Like no other hifi amplifier that we know of, the soulution 710 has neared the ideal of the perfect amplifier showing an inherently stable, level and phase correct behaviour. Only in terms of output power we purposefully chose not to go to extremes. Now, with the 700 mono blocks the power question – which depends largely upon the loudspeakers' requirements, room size and listening volume – is no longer an issue.

The 700 mono blocks surpass the stereo amplifier's power by more than three and a half times: up to 800 watts (at 4 ohms) stand by as continuous output power. More than enough to breathe new acoustic life even into the most critical, low-efficiency speakers.

With regard to the enormous performance boost, the proven soulution amplifier stages have been re-designed as bridge amplifiers in the mono blocks. The optimized mechanical construction results in perfect balanced circumstances with identical thermal conditions for both amplifier strips and an ideal ground reference.

If no music signal is present, the quiescent current will be cut down automatically by an intelligent control. And should your

soulution 700

speakers demand »bi-amping« instead of ultimate power, the soulution 700 is easily switched to this operation mode – that's custom-tailored amplification.

The soulution 700 mono blocks are powerhouses of an impressive physique: 56 cm (22") wide, 58.5 cm (23") deep and 30 cm (10") high. Each amplifier weighs in at a hefty 96 kg (212 lbs). For technical details of the circuit design please refer to the 710 power amplifier, the soulution philosophy described there also holds true for the 700 alike.

The technical specifications of the solution 700 mono blocks are nothing short of impressive and even slightly above those of the 710 stereo amplifier: 400 watts at 8 ohms, 800 watts at 4 ohms, along with a massive current capability of over 60 amperes and a transmission bandwidth of up to 2 Megahertz (-3dB) speak a bold language. All this at extremely low distortions (0.0005% at 50 watts at 4 ohms, 20 Hz to 20 kHz). Which other amplifier can come up with comparable performance specifications?

The sound potential of the 700s is at par. There is simply no loudspeaker which the 700 mono blocks could not push to its ultimate performance. Try them with your speakers – we guarantee you quite an experience.

In bridged operation mode the two amplifier channels are connected with a massive gold-plated copper bar. You may connect your speakers as well in »Bi-amping« mode – at a push of a button.

The phono amplification with RIAA equalization curve is the »piece de la resistance« of amplifier design. Especially the faint output signals of Moving-Coil cartridges are extremely demanding, reduction of residual noise and distortions are key deliverables in the specification sheet of a phono amplifier.

Phonopre amplifier

The charm provided by the reproduction of music from the vinyl disc is unbroken even in the 21st century. A technology that can be »grasped« in the truest sense of the word seems to be more appealing than ever. Its death has been declared already 20 years ago, but still today the vinyl record has its devoted fans.

In most cases the amplification of the music signal provided by the cartridge is the bottleneck in the signal path. Compromising on the phono amplification usually results in giving away or even ruining sound quality. Even the best MC cartridge will provide only mediocre results once connected to an alibi phono input. The task is simply too demanding – to amplify the faint output signal to the required level.

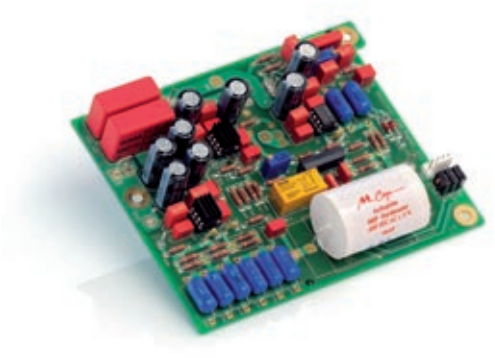
Moving Coil cartridges typically require an amplification by factor 1000 (60dB). On top of that the delicate task of equalizing according to the RIAA-curve needs to be mastered, as the music information is engraved in the vinyl with enhanced treble and reduced bass.

The phono amplifier needs quite ambient conditions like we need air for breathing. In order to minimize the influence of the power supply it has been externalized. The 750 gets supplied by the respective outputs of the 720/721 preamplifiers

soulution 750

or the external power supply unit 750 PSU. No mains AC-voltages, no transformers, no leakage fields – therefor silence is guaranteed inside the soulution 750.

These are ideal preconditions for a multi-stage, ultra wideband amplification circuit that is as low in residual noise as it is flexible. Three cartridges may be connected to the 750, not only the amplification and the termination impedance but also bandwidth: »low« (200 Kilohertz/-3dB) or »high« (1 Megahertz) can be selected individually. For bumpy LP's the IEC subsonic filter can be activated (<20 Hertz, this protects your loudspeakers from violent membrane deviations) and the good old mono switch is available. The attenuation function allows for convenient correction of eventual volume differences between the three connected cartridges (5 steps, -3dB/step). And while using the balanced outputs of the 750 the total amplification is increased by another 6dBs (60 / 66dB).

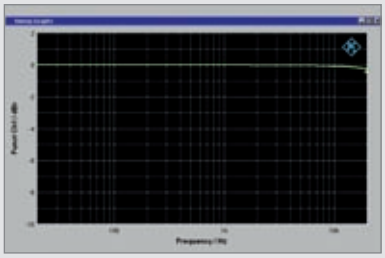


The sonic performance of the 750 is gorgeous and even outperforms the phono section of the 720 – which has gained a strong reputation even among dedicated tube fans. It is absolutely amazing how much music information is available from a vinyl record – go ahead and discover it.

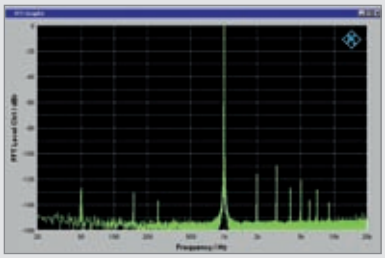
Specifications

CD/SACD player	soulution 740/745
Frequency response	0 - 100 kHz (24 bit / 192 kHz)
THD + N	< 0.0005% (20 Hz to 20 kHz)
Signal-to-noise ratio	> 140 dB
Channel separation	> 130 dB
Jitter	below measuring threshold
Analogue outputs	balanced XLR unbalanced RCA
Output impedance	2 ohms balanced and unbalanced
Digital inputs	AES/EBU balanced, SPDIF-RCA and -BNC TOS-Link, Clock (BNC)
Digital outputs	AES/EBU balanced, SPDIF-RCA and -BNC TOS-Link, Clock (BNC)
Mains	100 - 230 Volts (50/60 Hz)
Power consumption	100 watts / <0,5 Watts stand-by
Dimensions	480 mm * 167 mm * 450 mm (W * H * D) 480 mm * 115 mm * 450 mm (power supply)
Weight	23.5 kg CD player 23.5 kg power supply
Cabinet	Aluminium, black / natural
Remote turn-on	12 Volts link signal

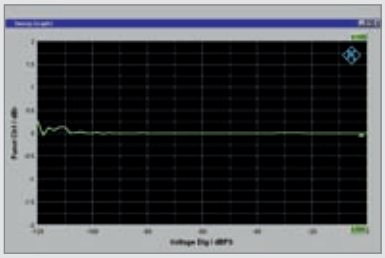
Frequency response

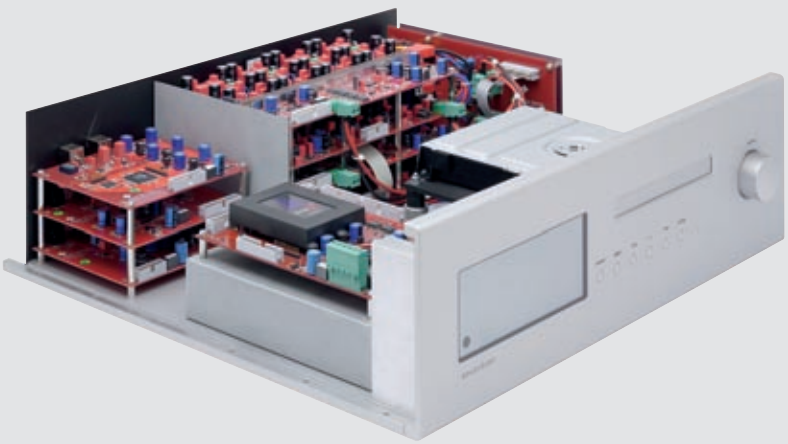


THD + N



DAC linearity

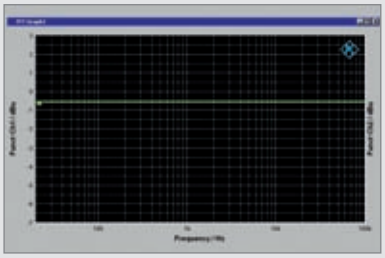




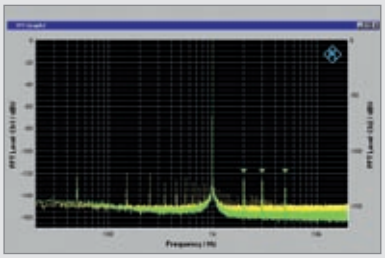
We reserve the right to alter technical specifications without prior notice.

Preamplifier	soulution 720 / 721
Gain	+9.5 dB balanced +3.5 dB unbalanced +54 / +60 dB Phono-MC unbalanced +Gain adjust +3 / +6 / +9 dB
Frequency response	0 - 1 Megahertz (-3 dB)
THD + N	<0.0006% (20 Hz to 20 kHz)
Signal-to-noise ratio	>140 dB
Channel separation	>110 dB
Input impedance	2 kOhm balanced 47 kOhm unbalanced 1 kOhm Phono-MC (adjustable)
Output voltage	max. 16 Vrms (100 Ohm) balanced max. 8 Vrms (100 Ohm) unbalanced
Output impedance	2 Ohm balanced and unbalanced 100 Ohm Record-Out
Inputs	720: 2 balanced, 3 unbalanced, Phono 721: 1 balanced, 3 unbalanced
Outputs	1 balanced, 1 unbalanced 720 with Record-Out unbalanced
Mains	100 - 240 Volt (50/60 Hz)
Power consumption	60 Watts / <0,5 Watts stand-by
Dimensions	480 mm * 167 mm * 450 mm (W * H * D)
Weight	30 kg
Chassis	Aluminium, black/silver anodised
Features	Gain and bandwidth chooseable via presets, brightness of display adjustable
Remote turn-on	12 Volts link signal (master)

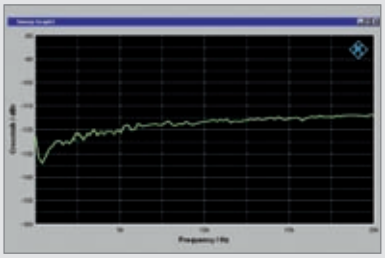
Frequency response

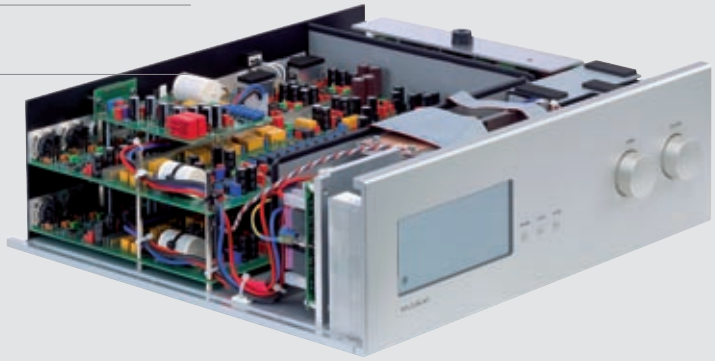


THD + N



Cross-talk





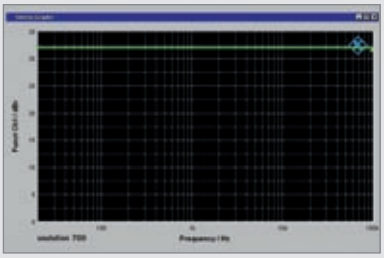
Specifications

Power amplifier	**soulution 710**	**soulution 700 Mono**
Power output	2 x 120 Watts at 8 Ohms 2 x 240 Watts at 4 Ohms 2 x 480 Watts at 2 Ohms	400 Watts at 8 Ohms (2 x 100 Watts)* 800 Watts at 4 Ohms (2 x 200 Watts)* 1600 Watts at 2 Ohms (2 x 400 Watts)*
Frequency response	0 - 1 Megahertz (-3 dB)	0 - 2 Megahertz 0 - 1 Megahertz*
Damping factor	> 10 000	> 10 000
THD + N	0.00068%, 50 Watts at 4 Ohms (20 Hz to 20 kHz)	0.00057%, 50 Watts at 4 Ohms (20 Hz to 20 kHz)
IM-Distortion	< 0.005% SMPTE < 0.0006% CCIR	< 0.005% SMPTE < 0.0006% CCIR
Signal-to-noise ratio	> 108 dB (5 Watts / 1 kHz)	> 108 dB (5 Watts/ 1 kHz)
Input impedance	10 kOhm balanced 4.7 kOhm unbalanced	2.3 kOhm balanced 4.0 kOhm unbalanced
Inputs	1 pair XLR-Neutrik 1 pair WBT-Nextgen Cinch, gold plated	1 XLR-Neutrik 1 WBT-Nextgen Cinch, gold plated
Outputs	2 pairs Cu-terminal, gold plated	2 pairs Cu-terminal, gold plated
Mains	100 - 240 Volts (50/60 Hz)	100 - 240 Volts (50/60 Hz)
Power consumption	<0.5 Watts Stand-by Idle current 300 Watts max. 1600 Watts	<0.5 Watt Stand-by »low / high« 150 / 300 Watts max. 2000 Watts
Dimensions	480 mm * 280 mm * 535 mm (W * H * D)	560 mm * 306 mm * 585 mm (W * H * D)
Weight	80 kg	96 kg
Chassis	Aluminium, black / silver anodised	Aluminium, black / silver anodised
Features	Start-settings chooseable via preset-switches, brightness of display adjustable	Start-settings chooseable, brightness of display adjustable, ground-lift
Remote turn-on	12 Volts link signal	12 Volts link signal

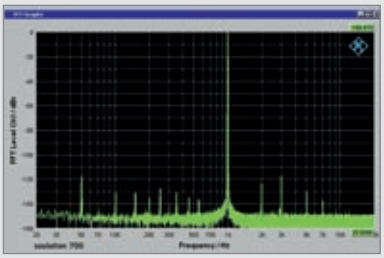
* Bi-Amping mode

We reserve the right to alter technical specifications without prior notice.

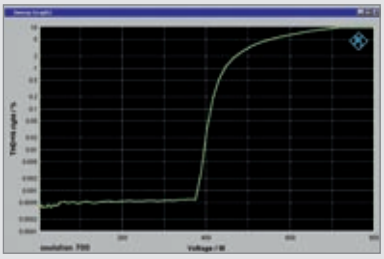
Frequency response



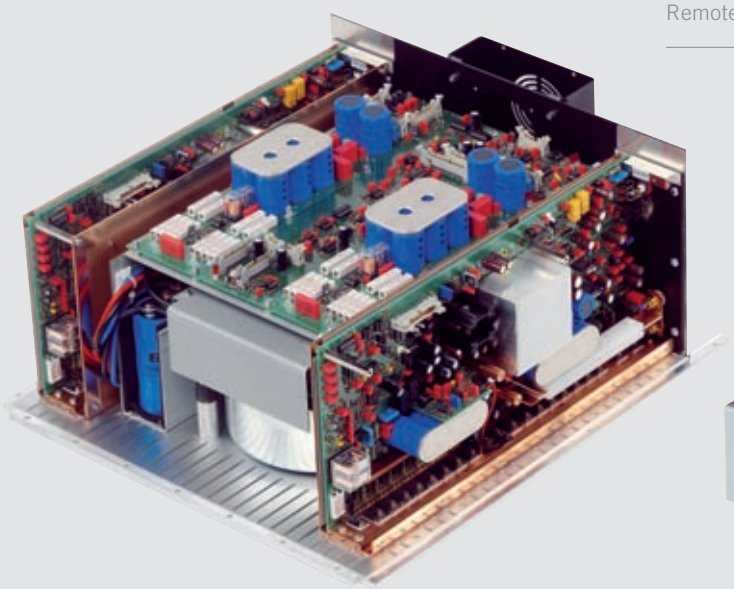
THD + N



THD vs. Power



Phono preamplifier	soulution 750
Gain	+54 dB / +60 dB unbalanced +60 dB / +66 dB balanced
Frequency response (-3 db)	0 - 1 Megahertz (bandwidth »high«) 0 - 200 kHz (bandwidth »low«)
Cross-talk	< 60 dB
THD + N	< 0.006%
Signal-to-noise ratio	100 dB
Inputs	3 pairs WBT-Nextgen Cinch, gold plated
Input impedance MC	1 kOhm (each input adjustable)
Outputs	1 balanced, 1 unbalanced
Output impedance	10 Ohm balanced and unbalanced
Output voltage	max. 7 Vrms balanced max. 3.5 Vrms unbalanced
Mains	external 750 PSU or 720/721
Power consumption	20 Watts / <0.5 Watts Stand-by
Dimensions	480 mm * 117 mm * 450 mm (W * H * D)
Weight	17 kg
Chassis	Aluminium, black/silver anodised
Remote turn-on	12 Volts link signal



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