

P 3100 HV



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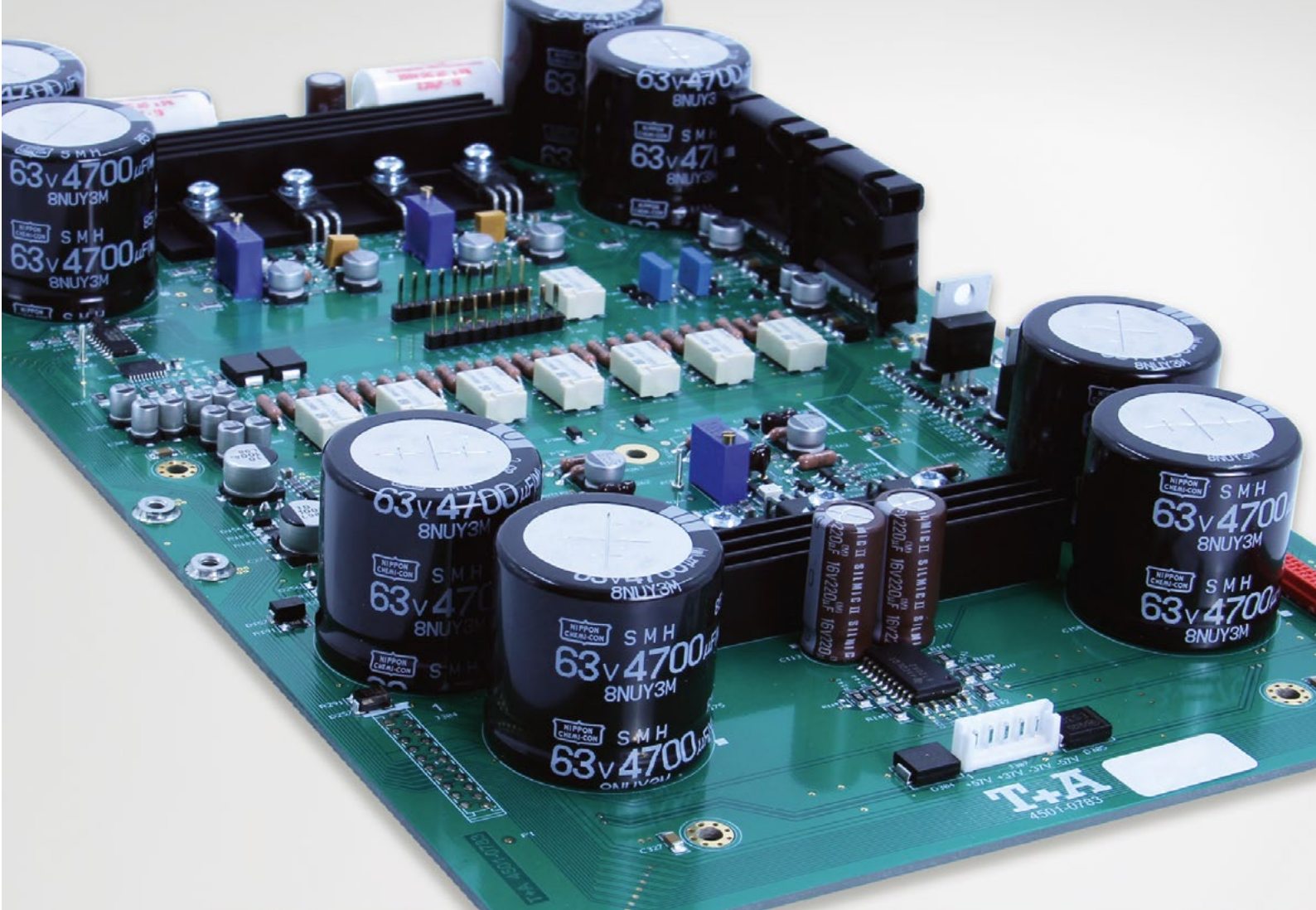
Preamplifier

Preamplifiers are the most important components of any High-End system. Source devices connected deliver low-level signals to the preamplifier's input section, and the unit's task is to switch and amplify these signals, regulate their volume, process them where necessary and deliver them to the output sockets, ready for the power amplifiers. All this has to be accomplished without altering or falsifying the signals' content. We have invested a vast amount of effort in designing preamplifiers which meet these requirements in full. The devices are of discrete, fully symmetrical construction, while every single component is the very finest available. The circuitry is housed in cases of uncompromising construction. The design and concept of the P 3100 HV is based on the P 3000 HV. Outwardly, the difference is only the type number. In terms of circuitry, however, the entire preamplifier section, and thus the most important part, has been further improved.

So far, the input and output stages of the P 3000 HV have been coupled to the relay volume control with high-quality capacitors.

In the P 3100 HV a new, very complex circuit board layout compensates for the temperature coefficients of the transistors and the operating points can be set exactly, which means that the preamplifier stages have a pure DC coupling. There are no longer coupling capacitors in the signal path between the input stage, volume control and output stage. The preamplifier board is absolutely voltage and temperature stable. In addition, we have equipped the digital power supply with more power and shielded it even better. The already oversized toroidal transformer of the analog part was enlarged to 115 VA. The sum of these measures leads to a significant improvement in sound quality.



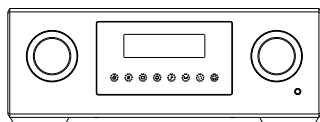


The connector section on the back panel provides impressive evidence of the P 3100 HV's uncompromising design and connectivity facilities. Both balanced (XLR) and unbalanced (RCA) sockets are available as outputs. There are four balanced inputs which alternatively can be configured as unbalanced types, plus two further unbalanced inputs and a recorder input. Input No. 4 can be operated in surround (pass-through) mode in order to use the power amplifier for the front channels of a surround decoder.

The analogue and digital mains power supplies are completely separate from each other, and even feature separate mains sockets! HV-Link (HV data bus), LAN socket, trigger input, RC-in for external E-2000 and an ground terminal are also present.



Specifications



Preamplifier stage	
Frequency response + 0 / - 3 dB	0,5 Hz - 300 kHz
Signal / noise ratio	108 / 112 dB
Total harmonic distortion	< 0,001 %
Intermodulation	< 0,001 %
Channel separation	> 108 dB
Nominal input sensitivity	
Unbalanced inputs (RCA)	7 x 250 mV _{eff} ... 9 V _{eff} / 20 kOhms
Balanced inputs (XLR)	4 x 500 mV _{eff} ... 18 V _{eff} / 5 kOhms
Outputs	
Headphones	50 Ohms high current
1 x Recorder	250 mV _{eff} / 100 Ohms
Pre Out RCA	nom 1 V _{eff} , max 9,5 V _{eff} / 50 Ohms
Pre Out XLR	nom 1,45 V _{eff} , max 19,6 V _{eff} / 50 Ohms
Reservoir capacity	75000 µF
Mains	2 x 110 - 120 V/60 Hz or 220 - 240 V/50 Hz, 10 + 60 Watts rated current consumption
Standby	< 0,5 Watt
Features	Trigger input +5 ... 20 V for external switching-on input 4 can be configured in surround mode analogue signal processing module slot for optional phono modules MM / MC
Dimensions (H x W x D), Weight	17 x 46 x 46 cm / 6.7 x 18.1 x 18.1", 28 kg / 61.7 lbs
Remote control	F 3001
Accessories	2 x power cord, remote control receiver E 2000
Finishes	case: silver laquer 47 or titanium laquer 64 heat sink black 42

Technical modifications reserved

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