

Completion to the  
main catalogue

# PDP 3000 HV

DSD / PCM player with CD-SACD player



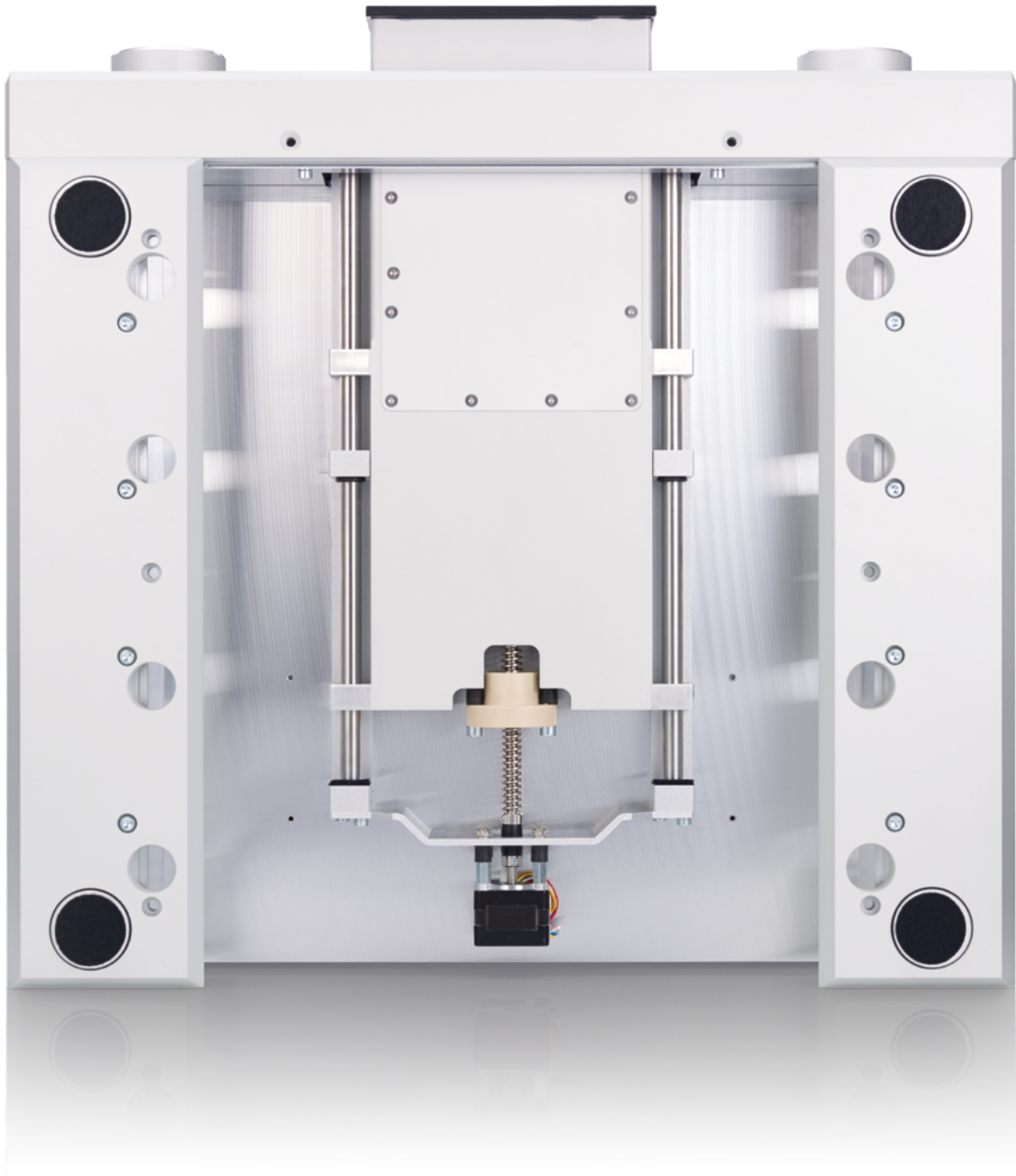
**T+A**



The PDP 3000 HV is the latest player in the HV series, and has been developed specifically to reproduce high-resolution audio data without any trace of compromise. For this reason we have equipped the machine with a uniquely superior disc mechanism which reads CD and SACD media perfectly, and transfers their data to its superb PCM and DSD converters. Since this unique converter concept is ideal for use with external sources, we have also designed the PDP 3000 HV to operate as a DAC, featuring seven digital inputs!

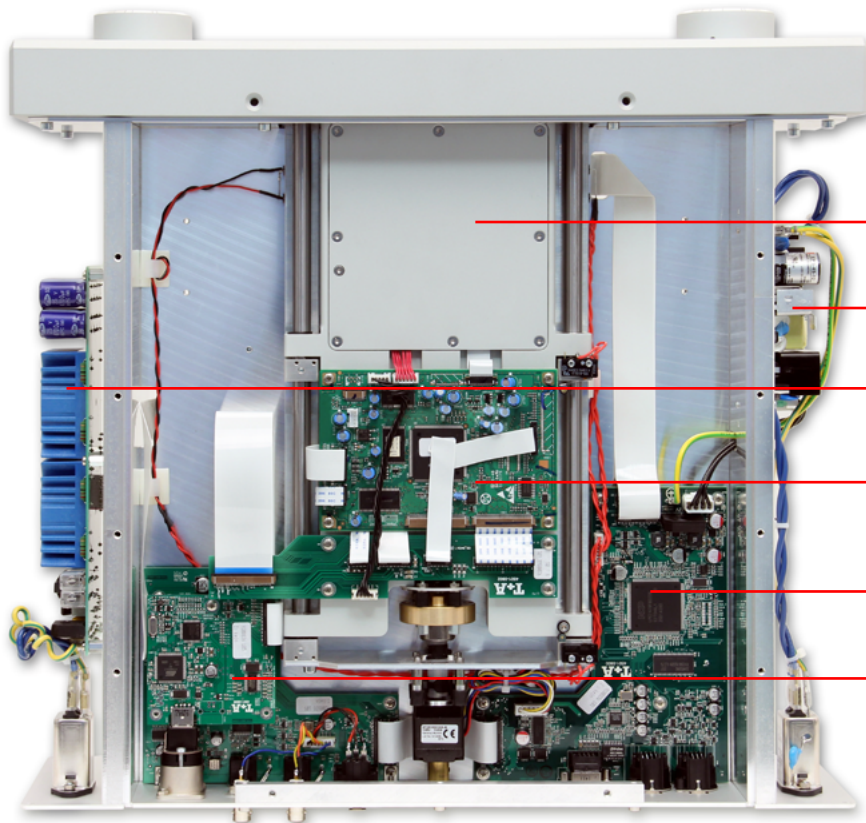
Like all HV devices the PDP 3000 HV incorporates no ferro-magnetic materials; it is constructed entirely of pure aluminium, and contains aluminium dividers which separate five compartments housing the disc mechanism with decoder board and digital inputs, the D/A converter with analogue output stage, the analogue mains power supply, the digital mains power supply and - in the solid front panel - the control section with its ultra-bright screen and sensor buttons. The core of the PDP 3000 HV is the quadruple double-differential digital / analogue converter which is based on the outstanding converter employed in the MP 3000 HV; in this case the converter features a supplementary signal path for processing DSD signals. The signals pass through our equally unique jitter-reduction stage, which receives the data from the CD / SACD mechanism block or the seven digital inputs, before being processed by the converter. The USB input is equipped with one of the latest USB interfaces, and is capable of reproducing PCM and DSD audio data of the highest quality; DSD data are passed directly to the converter modules. The current / voltage transducers which are downstream of the D/A converter are crucial to sound quality, and they are of fully discrete, channel-separate construction, and equipped with our HV technology, as are the analogue output stages.

The socket array on the back panel reflects the symmetrical construction of the case and the overall circuit design. The analogue output stages pass their signals directly to the professional-standard XLR or RCA output sockets for PCM and DSD operation. Below them - behind the lower compartment - are the digital input sockets, the HV bus, the LAN socket and the separate sockets for the analogue and digital mains power supplies.



The PDP 3000 HV's high-quality SCD mechanism is fully shielded and housed in a machined solid aluminium case, in order to prevent any trace of interaction between the moving parts of the mechanism and the rest of the player. The disc carrier block is mounted on just two close-tolerance pushrods which completely de-couple it from the heavy outer case. This in turn prevents the transmission of external pressure waves, vibration or structural sound from the mounting surface to the electronics and disc mechanism. A high-torque synchronous motor moves the disc carrier block smoothly and quietly by means of a precision-made de-coupled spindle. The top-loader mechanism makes it easy to insert discs without damaging them; they are held in place by an anti-resonance puck.





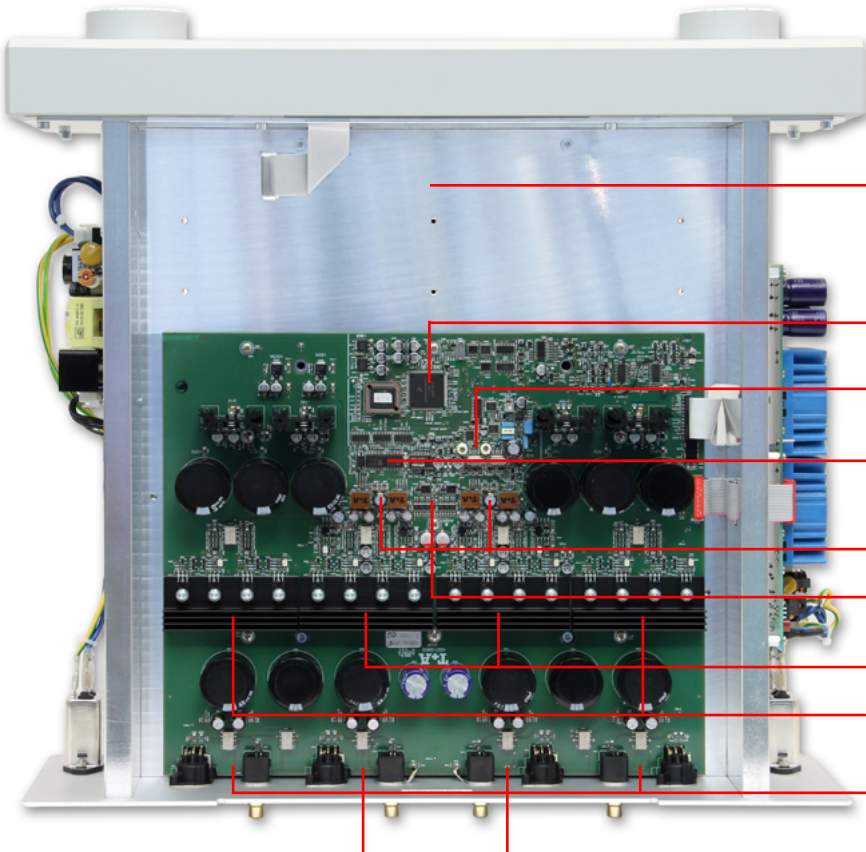
Heavy, hermetically shielded SACD mechanism with pushrod guides.

Analogue and digital mains power supplies in their own compartment within the case, each with its own, carefully optimised mains filtering.

CD-SACD decoder board.

Main processor board with inputs, switching and system control.

Digital input section with separate input board for USB device mode (PC connection) and first stage jitter elimination.



Absolut plane, machined base plate for the transport mechanism made of 10 mm massive aluminum. Perfect shielding for the analog section in the upper compartment from the digital section in the bottom.

DSP for PCM Signalprocessing.

Precision clock oscillators, final stage jitter elimination.

Complete galvanic separation between digital- and analogue section.

PCM Quadrupel converter .

True 1 Bit DSD converter.

double symmetrical DSD analogue output stage.

double symmetrical PCM analogue output stage.

PCM analogue outputs.

DSD analogue outputs.



## Specifications

### Mechanism

High precision linear tracking drive  
Double GaAlAs Laser System  
CD: 785 nm / 10 mW      SACD: 650 nm / 7 mW

### Formats

CD, CD-R, CD/RW, SACD Stereo, SACD multi-channel  
(as 2 channel downmix)

### Frequency response and dynamic

2 Hz – 20 kHz / 100 dB  
SACD: 2 Hz – 44 kHz / 110 dB

### Connections

Analogue outputs  
unbalanced (RCA)  
balanced (XLR)

2,5 Veff / 50 Ohms  
5,0 Veff / 50 Ohms

### Output digital

1x coax, IEC 60958 S/P-DIF (LPCM)

### Digital input

**1x AES-EBU** (192 kSps /24 bit)  
**5x S/P-DIF:** 1x standard coax (RCA, 2 high quality BNC  
(192 kSps /24 bit) and 2 optical TOS-Link (96 kSps /24 bit)  
**1x USB:** Device-Mode - up to 384 kSps (LPCM) and DSD512\*,  
supports asynchronous data transfer.

\* DSD256 and DSD512 only with a Windows PC  
with appropriate driver installed.

### D/A-Converter PCM

Double-Differential-Quadruple-Converter with four 32-Bit Sigma  
Delta D/A converters per channel. 352.4 / 384 kSps conversion rate.

### DSD

**T+A** True-1Bit DSD D/A-Converter

### Upsampling

**T+A** Digital Signal Processor - synchronous upsampling with  
4 selectable oversampling algorithms: FIR short, FIR long,  
Bezier/IIR, Bezier

### Frequency response

PCM 44.1 kSps: 2 Hz - 20 kHz  
PCM 48 kSps: 2 Hz - 22 kHz  
PCM 96 kSps: 2 Hz - 40 kHz  
PCM 192 kSps: 2 Hz - 80 kHz  
PCM 384 kSps: 2 Hz - 100 kHz

DSD 64: 2 Hz - 44 kHz  
DSD 128: 2 Hz - 60 kHz  
DSD 256: 2 Hz - 80 kHz  
DSD 512: 2 Hz - 100 kHz

Total harm. distortion	< 0.001 %
Signal / noise ratio, A-weighted:	> 110 dB
Channel separation	> 110 dB

**PWR requirement**

230 V version	1x 220 - 240 V~ und 1x 100 - 240 V~ , 50-60 Hz
115 V version	1x 110 - 115 V~ und 1x 100 - 240 V~ , 50-60 Hz

Power consumption	In Operation: 2x 40 W, Standby < 0,5 W
-------------------	--

**Dimensions**

H x W x D	17 cm x 46 cm x 46 cm
Weight	26 kg

Accessory	Remote control F3001, BNC to RCA adaptor, 2x power cord, Disc stabilizer.
-----------	---

Technical modifications reserved.